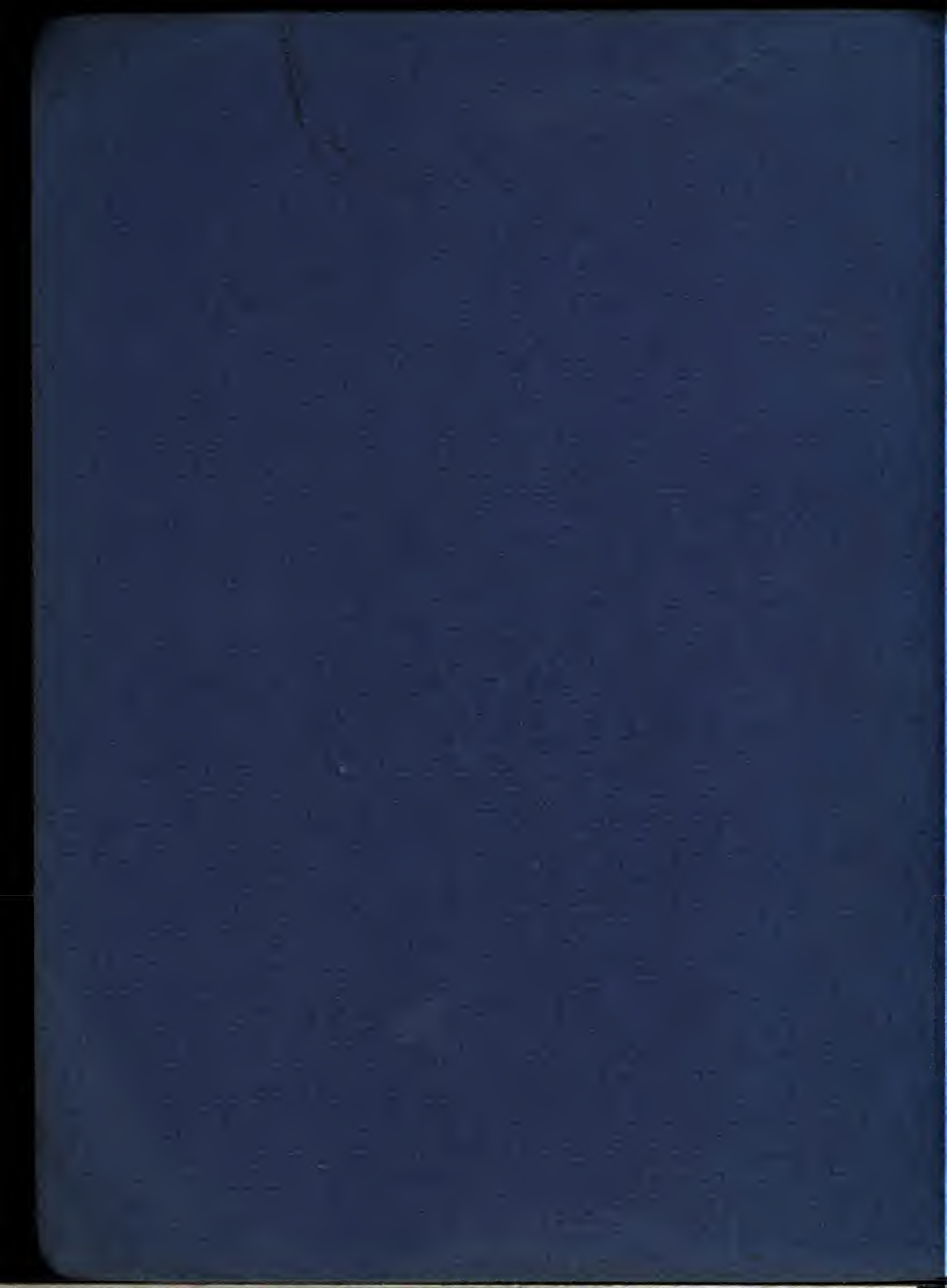


C. J. Rinear & Co.
Steam & Plumbing Supplies
Philadelphia





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C. J. RAINEAR & CO.

518 ARCH ST., PHILADELPHIA, PA.

WAREHOUSES { 517 CUTHBERT STREET
522 " "

STEAM AND PLUMBING SUPPLIES



SELLING AGENTS FOR

WM. POWELL COMPANY

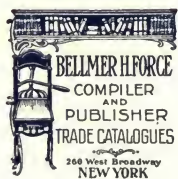
IMPROVED STEAM SPECIALTIES

SMOOTH-ON IRON COMPOUNDS & CEMENTS

RAINEAR BOILERS

ROUND AND SECTIONAL FOR STEAM AND WATER

PIPE CUT AND THREADED TO PLAN



BELLMER H. FORCE
AND
PUBLISHER
TRADE CATALOGUES

260 West Broadway
NEW YORK



STANDARD WEIGHT PIPE



PLATE A

FOR STEAM, WATER, GAS AND OIL

SUBJECT TO CHANGE WITHOUT NOTICE

Nominal Size, Inside Diameter, Inches	Price, per Foot, Black and Galvanized	Thickness, Inches	Nominal Weight, per Foot, Pounds	Number of Threads per Inch of Screw
$\frac{1}{8}$	.05 $\frac{1}{2}$	.068	.24	27
$\frac{1}{4}$	.05 $\frac{1}{2}$	.088	.42	18
$\frac{3}{8}$	.05 $\frac{1}{2}$	.091	.56	18
$\frac{1}{2}$	.08 $\frac{1}{2}$	.109	.84	14
$\frac{3}{4}$	.11 $\frac{1}{2}$	.113	1.12	14
1	.16 $\frac{1}{2}$	.134	1.67	11 $\frac{1}{2}$
$1\frac{1}{4}$	.22 $\frac{1}{2}$	.140	2.24	11 $\frac{1}{2}$
$1\frac{1}{2}$	.27	.145	2.68	11 $\frac{1}{2}$
2	.36	.154	3.61	11 $\frac{1}{2}$
$2\frac{1}{2}$	.57 $\frac{1}{2}$	.204	5.74	8
3	.75 $\frac{1}{2}$	.217	7.54	8
$3\frac{1}{2}$	.95	.226	9.00	8
4	1.08	.237	10.66	8
$4\frac{1}{2}$	1.30	.246	12.49	8
5	1.45	.259	14.50	8
6	1.88	.280	18.76	8
7	2.35	.301	23.27	8
8	2.50	.276	25.00	8
8	2.82	.322	28.18	8
9	3.40	.344	33.70	8
10	3.20	.278	32.00	8
10	3.50	.306	35.00	8
10	4.00	.366	40.00	8
11	4.50	.375	45.00	8
12	4.50	.328	45.00	8
12	4.90	.375	49.00	8

Unless otherwise ordered, black pipe, random lengths, with threads and couplings, will be shipped.

For cut lengths an extra charge will be made above random lengths.

For galvanized pipe an extra charge will be made above black.

For asphalted pipe an extra charge will be made above black.

X STRONG PIPE

Size	Price, per Foot	Actual Outside Diameter, Inches	Nominal Inside Diameter, Inches	Thickness, Inches	Nominal Weight per Foot, Pounds
$\frac{1}{8}$	.11	.40	.20	.10	.29
$\frac{1}{4}$	.11	.54	.29	.12	.54
$\frac{3}{8}$	.11	.67	.42	.12	.74
$\frac{1}{2}$	.12	.84	.54	.14	1.09
$\frac{3}{4}$	.15	1.05	.73	.15	1.39
1	.22	1.31	.95	.18	2.17
$1\frac{1}{4}$	.30	1.66	1.27	.19	3.00
$1\frac{1}{2}$	.36	1.90	1.49	.20	3.63
2	.50	2.37	1.93	.22	5.02
$2\frac{1}{2}$	.81	2.87	2.31	.28	7.67
3	1.05	3.50	2.89	.30	10.25
$3\frac{1}{2}$	1.33	4.00	3.35	.32	12.47
4	1.50	4.50	3.81	.34	14.97
$4\frac{1}{2}$	1.95	5.00	4.28	.36	18.22
5	2.16	5.56	4.81	.37	20.54
6	2.90	6.62	5.75	.43	28.58
7	3.80	7.62	6.62	.50	37.67
8	4.30	8.62	7.62	.50	43.00
9	5.00	9.62	8.62	.50	48.73
10	5.50	10.75	9.75	.50	54.74
11	6.25	11.75	10.75	.50	60.08
12	6.50	12.75	11.75	.50	65.42

XX STRONG PIPE

Size	Price, per Foot	Actual Outside Diameter, Inches	Nominal Inside Diameter, Inches	Thickness, Inches	Nominal Weight per Foot, Pounds
$\frac{1}{2}$	.25	.84	.24	.29	1.70
$\frac{3}{4}$	.30	1.05	.42	.31	2.44
1	.37	1.31	.58	.36	3.65
$1\frac{1}{4}$	.52	1.66	.88	.38	5.20
$1\frac{1}{2}$	.65	1.90	1.08	.40	6.40
2	.95	2.37	1.49	.44	9.02
$2\frac{1}{2}$	1.37	2.87	1.75	.56	13.68
3	1.92	3.50	2.28	.60	18.56
$3\frac{1}{2}$	2.45	4.00	2.71	.64	22.75
4	2.85	4.50	3.13	.68	27.48
$4\frac{1}{2}$	3.30	5.00	3.56	.71	32.53
5	3.80	5.56	4.06	.75	38.12
6	5.30	6.62	4.87	.87	53.11
7	6.25	7.62	5.87	.87	62.38
8	7.20	8.62	6.87	.87	71.62

All X Strong and XX Strong Pipe furnished Plain Ends unless otherwise ordered.



LARGE O. D. PIPE

Size, O. D.	$\frac{1}{4}$ Inch Thick	$\frac{5}{16}$ Inch Thick	$\frac{3}{8}$ Inch Thick	$\frac{7}{8}$ Inch Thick	$\frac{1}{2}$ Inch Thick
14	3.85	4.80	5.75	6.65	7.60
15	4.15	5.15	6.15	7.15	8.15
16	4.40	5.50	6.60	7.65	8.70
17	4.70	5.85	7.00	8.15	9.25
18	4.95	6.20	7.40	8.60	9.80
20	5.50	6.90	8.25	9.60	10.95
21	....	7.25	8.65	10.10	11.50
22	....	7.60	9.10	10.60	12.10
24	....	....	9.95	11.60	13.15
26	....	....	11.30	13.15	14.95
28	....	....	12.15	14.15	16.15
30	....	....	....	15.20	17.65

This pipe will be shipped in random lengths, plain ends, unless otherwise ordered.

For cut lengths an extra charge above random will be made.

For threaded pipe an extra charge above plain ends will be made.

We can thread up to 22 inches.

We can thread and couple up to 20 inches.

LINE PIPE

FOR OIL, GAS AND HIGH PRESSURE MAINS

Nominal Inside Diameter, Inches	Actual Outside Diameter, Inches	Weight per Foot, Pound	Number of Threads per Inch of Screw	Price per Foot
2	2.37	3.61	11 $\frac{1}{2}$	Prices Quoted on Application
2 $\frac{1}{2}$	2.87	5.74	8	
3	3.50	7.54	8	
3 $\frac{1}{2}$	4.00	9.00	8	
4	4.50	10.66	8	
4 $\frac{1}{2}$	5.00	12.34	8	
5	5.56	14.50	8	
6	6.62	18.76	8	
7	7.62	23.27	8	
8	8.62	28.18	8	
9	9.68	33.70	8	
10	10.75	40.06	8	
12	12.75	49.00	8	

Line Pipe of special weight, etc., made to order, prices and information furnished on application.



STANDARD BOILER TUBES

LAP-WELDED



PLATE A

OF STANDARD GAUGE, NOT OVER 20 FEET LONG

SUBJECT TO CHANGE WITHOUT NOTICE

Actual Diameter Outside, Inches	Price per Foot	Thickness, Inches	Thickness Nearest Bgm. W. G. Gauge	Nominal Weight per Foot, Pounds
1	.30	.095	13	.90
1 1/4	.28	.095	13	1.15
1 1/2	.27	.095	13	1.40
1 3/4	.22	.095	13	1.65
2	.20	.095	13	1.91
2 1/4	.24	.095	13	2.16
2 1/2	.28	.109	12	2.75
2 3/4	.34	.109	12	3.04
3	.35	.109	12	3.33
3 1/4	.40	.120	11	3.96
3 1/2	.44	.120	11	4.28
3 3/4	.50	.120	11	4.60
4	.55	.134	10	5.47
4 1/2	.62	.134	10	6.17
5	.75	.148	9	7.58
6	1.00	.165	8	10.16
7	1.20	.165	8	11.90
8	1.50	.165	8	13.65
9	1.70	.180	7	16.76
10	2.10	.203	6	21.00
11	2.50	.220	5	25.00
12	2.90	.229	4 1/2	28.50
13	3.20	.238	4	32.06
14	3.65	.248	3 1/2	36.00
15	4.10	.259	3	40.60
16	4.60	.270	2 1/2	45.20

For extra wire gauge boiler tubes, away from standard not exceeding four wire gauges, one cent for each inch in diameter of tube for each additional gauge will be charged and added to net of invoice.

Tubes more than four wire gauges heavier than standard will be charged by the pound the same as plain end stay tubes, arch pipes, dry pipes and water grates.

PIPE CUT TO ORDER

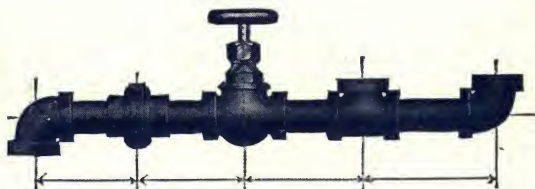


PLATE A
DIAGRAM SHOWING SCREWED VALVES AND FITTINGS

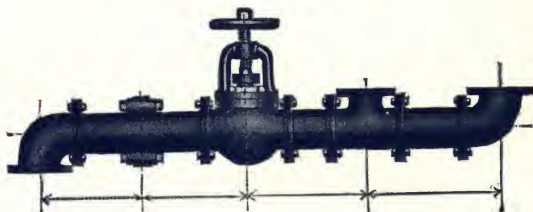


PLATE B
DIAGRAM SHOWING FLANGED VALVE AND FITTINGS

We are equipped with the most improved facilities for cutting, threading and fitting all sizes of pipe to sketch.

In laying out work of this kind great care should be taken in making sketches. All measurements should be given center to center, as shown in above diagrams. It is also necessary to know for what purpose the pipe is to be used and pressure required to stand.

PRICE FOR CUTTING AND THREADING PIPE

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price....Per Cut	.06	.06	.06	.06	.06	.06	.08	.10	.14
Size.....Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Price....Per Cut	.20	.30	.40	.40	.50	.60	.90	1.10	1.20
Size.....Inches	9	10	12	14 O. D.	15 O. D.	16 O. D.	18 O. D.	..	..
Price....Per Cut	2.00	2.50	3.50	6.50	7.50	10.00	20.00	....	....

CAST IRON FITTINGS



PLATE A. ELBOW

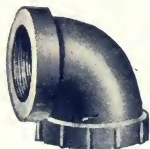


PLATE B. R. AND L. ELBOW



PLATE C. 45° ELBOW

Size.....Inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Elbows, R. H. Each	.05	.05	.06	.08	.10	.16	.20	.28	.50	.75	1.05	1.20
Elbows, R. and L. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.50
Elbows, L. H. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.50
Elbows, Reducing. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.40
Elbows, Pitched. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.40
Elbows, Side Outlet. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.40
45° Elbows. Each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20	1.40

Size.....Inches	4 1/2	5	6	7	8	9	10	12	14	15
Elbows, R. H. Each	1.75	2.00	2.75	4.70	6.75	9.00	13.50	20.00	57.00	70.00
Elbows, R. and L. Each	2.25	2.40	3.40	5.40	7.75	10.50	15.50	23.00	63.00	77.00
Elbows, Reducing. Each	2.00	2.30	3.15	5.40	7.75	10.50	15.50	23.00	63.00	77.00
Elbows, Pitched. Each	2.00	2.30	3.15	5.40	7.75	10.50	15.50	23.00	63.00	77.00
Elbows, Side Out't Each	5.25	6.00	8.25	14.00	20.00	26.00	40.00	60.00	110.00	130.00
45° Elbows. Each	2.20	2.50	3.45	5.90	8.50	11.25	17.00	25.00	55.00	68.00

ECCENTRIC TEES



PLATE D

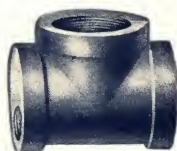


PLATE E

These fittings are designed to prevent the accumulation and lodgment of condensation.

Orders must be accompanied with sketch, showing position in which the fitting is to be placed.

Prices on application.

CAST IRON FITTINGS

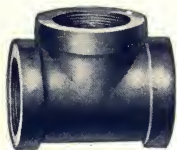


PLATE A. TEE



PLATE B. REDUCING TEE

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Tees.....Each	.08	.08	.09	.12	.15	.23	.29	.41
Tees, Reducing.....Each	.09	.10	.10	.14	.17	.27	.33	.47
Tees, with Side Outlet.....Each			.27	.36	.45	.70	.90	1.25
Size.....Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	..
Tees.....Each	.73	1.10	1.50	1.75	2.55	3.00	4.00	.....
Tees, Reducing.....Each	.83	1.25	1.75	2.00	2.95	3.50	4.60	.....
Tees, with Side Outlet.....Each	2.25	3.25	4.50	5.25	7.65	9.00	12.00	.....
Size.....Inches	7	8	9	10	12	14	15	..
Tees.....Each	6.80	9.75	13.00	19.50	29.00	75.00	90.00	.....
Tees, Reducing.....Each	7.80	11.25	15.00	22.50	33.50	83.00	100.00	.....
Tees, with Side Outlet.....Each	20.00	30.00	40.00	50.00	90.00	.....	.....	.....

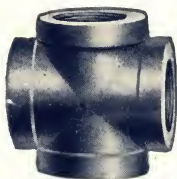


PLATE C. CROSS



PLATE D. Y BRANCH

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Crosses.....Each	.15	.16	.22	.27	.42	.53	.75
Crosses, Reducing.....Each	.18	.18	.25	.30	.46	.60	.83
Y Branches.....Each		.20	.28	.34	.54	.66	.94
Y Branches, Reducing.....Each		.23	.33	.40	.62	.76	1.08
Size.....Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Crosses.....Each	1.30	2.00	2.70	3.15	4.60	5.50	7.25
Crosses, Reducing.....Each	1.45	2.20	3.00	3.50	5.10	6.00	8.00
Y Branches.....Each	1.66	2.50	3.50	4.00	5.90	7.00	9.20
Y Branches, Reducing.....Each	1.90	2.90	4.00	4.60	6.80	8.00	10.60
Size.....Inches	7	8	9	10	12	14	15
Crosses.....Each	12.25	17.50	23.50	35.00	52.50	110.00	130.00
Crosses, Reducing.....Each	13.50	19.25	26.00	38.50	58.00	120.00	143.00
Y Branches.....Each	15.60	22.50	30.00	45.00	67.00	.....	.....
Y Branches, Reducing.....Each	18.00	26.00	35.00	51.75	77.00	.....	.....

CAST IRON FITTINGS

RETURN BENDS



PLATE A. CLOSE



PLATE B. OPEN



PLATE C. BACK OUTLET

Return Bends, Size, Ins.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Close..... Ea.	.18	.20	.22	.28	.40	.57	1.20	1.70	3.60	5.00	7.00	10.75	13.50
Open..... Ea.	.25	.26	.30	.40	.55	.80	1.35	2.20	4.00	6.50	7.00	11.00	13.50
Back Outlet..... Ea.	..	.38	.42	.60	.80	1.15	2.00	3.00	..	..	..	..	..
Close, R. & L. or L. H. Ea.	.21	.23	.26	.33	.46	.66	1.40	1.95	4.15	5.25	..	..	..
Open, R. & L. or L. H. Ea.	..	.30	.35	.46	.64	.92	1.55	2.50	4.60	7.00	..	..	..

DIMENSIONS OF RETURN BENDS

Size of Pipe..... Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Close, Center to Center..... In.	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{5}{8}$	$4\frac{3}{8}$	5	6	..	..	..
Open, Center to Center..... In.	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{1}{4}$	$5\frac{3}{8}$	$6\frac{1}{8}$	..	7	8	9	10
Back Outlet, C. to C., Open In.	..	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{1}{4}$	$5\frac{3}{8}$	$6\frac{1}{8}$	..	..	..	..	..
Back Outlet, C. to C., Close In.	..	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{5}{8}$	$4\frac{3}{8}$	..	..	..	..	..

RETURN BENDS, CLOSE, TAPPED ON PITCH

Size..... Inches	1	1	1	1	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
Length of Pipe in Coll.. Feet	3	4	5	6	7	8	4	5	6
Price.....	.26	.26	.26	.26	.26	.26	.33	.33	.33
Price, Right and Left.....	.26	.26	.26	.26	.26	.26	.33	.33	.33



PLATE D. RETURN BEND, WIDE PATTERN



PLATE E. OFFSET

RETURN BENDS, WIDE PATTERN

Size.. In.	$\frac{3}{4}$	1	1	$1\frac{1}{2}$	1	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2
C. to C..	6	3	4	$4\frac{1}{2}$	5	6	7	8	4	6	9	5	6	6
Blk.. Ea.	.60	.45	.50	.55	.60	.75	.90	1.00	1.00	1.15	1.25	2.75	1.30	1.60
Galv. Ea.	1.10	.80	.90	1.00	1.10	1.30	1.45	1.60	1.75	1.90	2.00	5.30	2.30	2.60
												3.25	3.00	3.25

OFFSETS

Size..... Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
To offset 4 inch.. Each	.45	.70	1.00	1.20	1.80	3.00	4.00	5.00	6.00	8.00	10.00
To offset 6 inch.. Each	.67	1.05	1.50	1.80	2.70	4.50	6.00	7.50	9.00	12.00	15.00
To offset 8 inch.. Each	.90	1.40	2.00	2.40	3.60	6.00	8.00	10.00	12.00	16.00	20.00



CAST IRON FITTINGS



PLATE A. CAP



PLATE B. REDUCER



PLATE C. LOCKNUT

Size.....Inches	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2
Caps, Cast Iron.....Each	.08	.14	.20	.26	.40	.54	.75	.87	1.05
Reducers, Cast Iron.....Each	.08	.14	.20	.26	.40	.54	.75	.87	1.05
Locknuts, Cast Iron.....Each	.08	.14	.20	.26	.40	.54	.75	.87	1.05
Size.....Inches	5	6	7	8	9	10	12	14	15
Caps, Cast Iron.....Each	1.20	1.55	2.50	2.85	4.75	5.50	7.00	19.00	22.00
Reducers, Cast Iron.....Each	2.00	2.70	5.35	6.75	8.35	10.00	15.00	30.00	40.00
Locknuts, Cast Iron.....Each	.90	1.30	1.70	2.35	2.70	3.00	4.00	7.00	9.00



PLATE D. BUSHING

BUSHINGS



PLATE E. BUSHING, FACED

Size.....Inches	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Bushings.....Each	.04	.04	.05	.06	.07	.09	.14	.21	.30	.40	.50
Faced Bushings.....Each	.08	.09	.11	.13	.17	.22	.32	.48	.70	1.20	1.50
Size.....Inches	4 1/2	5	6	7	8	9	10	12	14	15	....
Bushings.....Each	.75	.93	1.25	1.87	2.75	3.25	3.75	5.00	12.50	16.00	....
Faced Bushings.....Each	2.10	2.60	3.75	....	8.25	9.75	....	....	....	....	....

MALLEABLE UNIONS

WITH LIP



PLATE F

Size.....Inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Black.....Each	.18	.18	.20	.22	.27	.33	.46	.58	.75	1.55	2.10	3.65	4.35
Galvanized.....Each	.27	.27	.30	.33	.40	.50	.70	.90	1.15	2.35	3.15	5.50	6.50

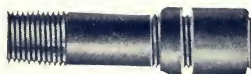
CAST IRON FITTINGS


PLATE A. PLUG

PLUGS


PLATE B. COUNTERSUNK

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	
Plugs.....Each	.02	.02	.02	.02	.03	.04	.05	.07	.10	.18	.25	
Plugs, Countersunk.....Each				.04	.06	.08	.09	.11	.15	.30	.40	
Plugs, Solid.....Each		.04	.04	.04	.06	.08	.09	.11	.15	.27	.38	
Plugs, L. H.....Each					.06	.08	.09	.11	.15			
Size.....Inches	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14	15
Plugs.....Each	.38	.42	.65	.88	1.20	1.85	2.75	3.25	3.75	5.00	12.50	15.00
Plugs, Solid.....Each	.57	.63	1.00	1.35	1.80	2.80	4.15	5.00	5.75	7.50		


**PLATE C LONG SCREW
WITH SOCKET AND FOLLOWER**

**PLATE D
FOLLOWER**

**PLATE E
SOCKET**

Size Inches	Black	Galv.	Extra Long Black Long Screws, Inches									
			4	5	6	7	8	9	10	11	12	
$\frac{1}{4}$	.30	.35	.32	.34	.36	.38	.40	.42	.44	.46	.48	
$\frac{3}{8}$	.35	.40		.37	.40	.42	.44	.46	.48	.50	.52	
$\frac{1}{2}$	.40	.50		.42	.44	.46	.48	.50	.52	.54	.56	
$\frac{3}{4}$	.55	.66			.64	.68	.72	.76	.80	.84	.88	
1	.75	1.00			.79	.83	.87	.91	.95	.99	1.03	
1 $\frac{1}{4}$	1.00	1.25				1.04	1.08	1.12	1.16	1.20	1.24	
1 $\frac{1}{2}$	1.30	1.60				1.34	1.38	1.42	1.46	1.50	1.54	
2	1.70	2.10					1.80	1.90	2.00	2.10	2.20	
2 $\frac{1}{2}$	2.70	3.10					2.80	3.00	3.20	3.40	3.60	
3	3.70	4.70					3.90	4.10	4.30	4.50	4.70	
3 $\frac{1}{2}$	5.40	6.75						5.63	5.87	6.11	6.35	
4	6.60	8.25							7.00	7.40	7.80	

PER HUNDRED PIECES

Size...Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Sockets.....	6.60	8.00	9.40	10.80	13.80	21.00	25.40	33.60	68.00	100.00	140.00	190.00
Followers.....	4.40	5.60	6.20	7.20	9.40	14.00	17.00	22.40	55.00	85.00	120.00	140.00
Socket, Galv.....	7.80	10.60	13.00	15.60	20.40	31.40	36.60	49.20	102.00	150.00	210.00	285.00
Foll., Galv.....	5.40	7.00	8.00	10.40	13.40	21.00	24.40	32.80	82.50	127.50	180.00	210.00

Long Screws, longer than Standard, made to order and charged as Cut Pipe.
Threads, Couplings and Lock Nuts extra.

WROUGHT IRON COUPLINGS

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Black.....Each	.05	.05	.06	.07	.10	.13	.17	.21	.28	.40	.60
Galvanized.....Each	.06	.08	.10	.13	.18	.25	.32	.40	.55	.80	
Size.....Inches	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14
Black.....Each	.80	1.00	1.50	1.65	2.40	3.25	4.25	5.50	7.50	10.00	18.75
Galvanized.....Each	1.05	1.40	2.00	2.25	3.25						



GALVANIZED CAST IRON FITTINGS.

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Elbows.....	.10	.10	.12	.16	.21	.32	.40	.56	1.00	1.50	2.10	2.40
Elbows, Reducing.....	.12	.14	.18	.24	.36	.46	.64	1.20	1.70	2.40	2.80	
Elbows, R. & L.....	.12	.14	.18	.24	.36	.46	.64	1.20	1.70	2.40	2.80	
Elbows, 45°.....	.12	.14	.20	.24	.38	.48	.68	1.20	1.80	2.50	2.90	
Elbows, Side Outlet.....	.....	.36	.48	.60	.96	1.20	1.68	3.00	4.50	6.30	7.20	
Tees.....	.16	.16	.18	.24	.30	.46	.58	.82	1.46	2.20	3.00	3.50
Tees, Reducing.....	.18	.20	.28	.34	.54	.66	.94	1.66	2.50	3.50	4.00	
Tees, Side Outlet.....	.....	.54	.72	.90	1.40	1.80	2.50	4.50	6.50	9.00	10.50	
Offsets:												
To set off 4 inches.....	.....	.....	.....	.90	1.40	2.00	2.40	3.60	6.00	8.00	10.00	12.00
To set off 6 inches.....	.....	.....	.....	1.34	2.10	3.00	3.60	5.40	9.00	12.00	15.00	18.00
To set off 8 inches.....	.....	.....	.....	1.80	2.80	4.00	4.80	7.20	12.00	16.00	20.00	24.00
Crosses.....	.30	.32	.44	.54	.84	1.06	1.50	2.60	4.00	5.40	6.30	
Crosses, Reducing.....	.....	.36	.50	.60	.92	1.20	1.66	2.90	4.40	6.00	7.00	
Reducers.....	.....	.....	.....	.....	.....	.....	.....	1.20	1.60	2.00	2.70	
Bushings.....	.....	.08	.10	.12	.14	.18	.28	.42	.60	.80	1.00	
Plugs.....	.04	.04	.06	.08	.10	.14	.20	.36	.50	.76	.84	
Plugs, Counter-sunk.....	.....	.08	.12	.16	.18	.22	.30	.60	.80	.....	.....
Caps.....	.....	.....	.....	.....	.....	.....	.....	.80	1.08	1.50	1.74	
Flange Unions, St'd.....	.....	.80	.92	1.04	1.28	1.56	2.00	2.50	3.00	3.60	4.20	
Return Bends:												
Close.....	.....	.36	.40	.44	.56	.80	1.14	2.40	3.40	7.20	9.00	
Open.....	.....	.....	.52	.60	.80	1.10	1.60	2.70	4.40	8.00	10.50	
Back Outlet.....	.....	.....	.76	.84	1.20	1.60	2.30	4.00	6.00	.....	.....
Side Outlet.....	.....	.....	.88	.96	1.38	1.44	2.66	4.60	6.90	.....	.....
Y's.....	.....	.40	.56	.68	1.08	1.32	1.88	3.32	5.00	7.00	8.00	
Y's, Reducing.....	.....	.46	.66	.80	1.24	1.52	2.16	3.80	5.80	8.00	9.20	
Lock Nuts.....	.....	.....	.....	.....	.....	.....	.....	.54	.68	.94	1.28	

Size.....Inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12	14
Elbows.....	3.50	4.00	5.50	9.40	13.50	18.00	27.00	40.00	114.00
Elbows, Reducing.....	4.00	4.60	6.30	10.80	15.50	21.00	31.00	46.00	126.00
Elbows, R. & L.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elbow, 45°.....	4.40	5.00	6.90	11.80	17.00	22.50	34.00	50.00	110.00
Elbows, Side Outlet.....	10.50	12.00	16.50	.....	.....	.....	.....	.....	.....
Tees.....	5.10	6.00	8.00	13.60	19.50	26.00	39.00	58.00	150.00
Tees, Reducing.....	5.90	7.00	9.20	15.60	22.00	30.00	45.00	67.00	166.00
Tees, Side Outlet.....	5.30	18.00	24.00	.....	.....	.....	.....	.....	.....
Offsets:									
To set off 4 inches.....	.....	16.00	20.00	.....	.....	.....	.....	.....	.....
To set off 6 inches.....	.....	24.00	30.00	.....	.....	.....	.....	.....	.....
To set off 8 inches.....	.....	32.00	40.00	.....	.....	.....	.....	.....	.....
Crosses.....	9.20	11.00	14.50	24.50	35.00	47.00	70.00	105.00	220.00
Crosses, Reducing.....	10.20	12.00	16.00	27.00	38.50	52.00	77.00	116.00	240.00
Reducers.....	3.70	4.00	5.40	10.70	13.50	16.70	20.00	30.00	60.00
Bushings.....	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00	25.00
Plugs.....	1.30	1.75	2.40	3.70	5.50	6.50	7.50	10.00	25.00
Plugs, Counter-sunk.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Caps.....	2.10	2.40	3.10	5.00	5.70	9.50	11.00	14.00	38.00
Flange Unions, St'd.....	5.40	6.30	7.90	11.00	14.00	20.00	23.00	32.00	.....
Return Bends:									
Close.....	14.00	21.50	27.00	.....	.....	.....	.....	.....	.....
Open.....	14.00	22.00	27.00	.....	.....	.....	.....	.....	.....
Back Outlet.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Side Outlet.....	.....	.....	.....	.....	.....	.....	90.00	134.00	.....
Y's.....	11.80	14.00	18.40	31.20	45.00	.....	.....	.....	.....
Y's, Reducing.....	13.60	16.00	21.20	36.00	52.00	70.00	103.00	154.00	.....
Lock Nuts.....	1.70	1.80	2.60	3.40	4.70	5.40	6.00	8.00	14.00

THE NOKOROS PATENT UNION.

ABSOLUTELY NON-CORROSIVE, BRASS TO IRON AT ALL
CONTACT POINTS.

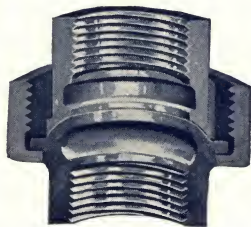


PLATE A

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Plain.....Each	.18	.19	.22	.27	.40	.48
Galvanized.....Each	.22	.23	.26	.34	.49	.60
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	
Plain.....Each	.66	.80	1.14	2.10	2.65	
Galvanized.....Each	.82	1.10	1.40	2.75	3.50	

FLANGE UNIONS.



PLATE B

STANDARD FLANGE UNIONS, CAST IRON

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Price.....Each	.40	.46	.52	.64	.78	1.00	1.25	1.50	1.80
Size.....Inches	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Price.....Each	2.10	2.70	3.15	3.95	5.50	7.00	10.00	11.50	16.00

ECCENTRIC REDUCING COUPLINGS



PLATE A

Size.....Inches	2 1/2 x 1 1/4	2 1/2 x 1 1/2	2 1/2 x 2	3 x 2	3 x 2 1/2	3 1/2 x 3
Price.....	1.50	1.50	1.50	2.40	2.40	3.00
Size.....Inches	3 1/2 x 2 1/2	4 x 3 1/2	4 x 3	5 x 4	6 x 4	.....
Price.....	3.00	4.00	4.00	6.00	8.00	.....

ECCENTRIC BUSHINGS REDUCING TWO OR MORE SIZES



PLATE B

Size...Inches	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8	9	10	12	14
Price.....	.27	.50	.60	.80	1.00	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00	25.00

All Bushings, right and left, or left hand, double above prices.

CAST IRON RIGHT AND LEFT COUPLINGS

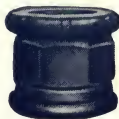


PLATE C

Size.....Inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Price.....Each	.07	.08	.11	.15	.20	.25	.30	.50	.85	1.20	2.00
Price, Galvanized.....Each	.14	.16	.22	.30	.40	.50	.60	1.00	1.70	2.40	4.00

CAST IRON FLANGES.

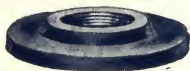


PLATE A
COMMON FLANGE.



PLATE B
OVAL FLANGE.

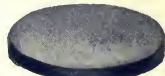


PLATE C
SOLID FLANGE.

In.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10
3	.10	.10	.12	.12	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3 $\frac{1}{2}$	.15	.15	.15	.15	.16	...	...	...	...	...	...	...	...	...	...	...	...	...
4	.22	.22	.22	.16	.16	.22	.22	...	...	...	...	...	...	...	...	...	...	...
4 $\frac{1}{2}$	.25	.25	.25	.25	.25	.22	.35	...	...	...	...	...	...	...	...	...	...	...
5	.35	.35	.30	.30	.30	.30	.35	...	...	...	...	...	...	...	...	...	...	...
5 $\frac{1}{2}$	.45	.45	.45	.40	.40	.40	.35	.40	...	...	...	...	...	...	...	...	...	...
6	.50	.50	.50	.42	.40	.40	.42	.42	.50	...	...	...	...	...	...	...	...	...
6 $\frac{1}{2}$	...	.65	.60	.60	.60	.55	.50	.50	.50	.65	...	...	...	...	...	...	...	...
7	...	.75	.75	.75	.70	.70	.62	.62	.62	.75	...	...	...	...	...	...	...	...
7 $\frac{1}{2}$	...	.90	.90	.90	.85	.85	.80	.80	.75	.85	.90	...	...	...	...	...	...	...
8	...	1.00	1.00	1.00	.95	.95	.90	.90	.90	.90	.90	.90	1.25	...	...	...	...	...
8 $\frac{1}{2}$	...	1.25	1.25	1.25	1.15	1.15	1.10	1.10	1.10	1.00	1.00	1.00	1.25	...	...	...	...	...
9	...	...	...	1.35	1.35	1.35	1.30	1.25	1.15	1.15	1.15	1.15	1.40	1.45	...	...	...	...
9 $\frac{1}{2}$	...	...	...	...	1.90	1.90	1.75	1.75	1.66	1.60	1.50	1.25	1.50	1.50	...	...	...	...
10	...	...	...	...	2.25	2.25	2.15	2.00	1.80	1.50	1.50	1.50	1.50	1.50	1.80	...	...	...
11	...	...	...	...	...	2.50	2.50	2.25	2.25	2.00	1.75	1.75	1.75	2.20	...	...	...	...
12	...	...	...	...	...	3.00	3.00	3.00	2.75	2.50	2.50	2.20	2.20	2.20	2.80	...	...	...
13	...	...	...	...	...	...	3.50	3.50	3.25	3.00	3.00	2.80	2.80	2.80	...	...	...	...
14	...	...	...	...	...	...	4.00	4.00	3.75	3.75	3.50	3.25	3.25	3.25	3.75	4.00	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	4.00	4.00	4.00	4.00	4.50	...
16	...	...	...	...	...	...	...	...	...	7.00	6.50	6.00	6.00	5.00	5.00	5.00	5.00	6.00
17	...	...	...	...	...	...	...	...	...	...	...	...	6.50	6.50	5.75	5.75	7.00	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	8.00	8.00	8.00	7.50	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7.50	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7.50	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10.00	...

BRANCH TEES.



PLATE D
END OUTLET.



PLATE E
BACK OUTLET IN CENTER.



PLATE F
CENTER SIDE OPENING.

No. of Branches.	2	3	4	5	6	7	8	9	10	11	12	13
Size Br. Inches	1 or 1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8
Run Inches	1 or 1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8
1	.90	1.05	1.15	1.35	1.60	1.90	2.20	2.65	3.15	3.75	4.40	5.00
1	1.00	1.15	1.30	1.45	1.75	2.20	2.45	2.90	3.30	4.50	4.75	5.50
1	1.15	1.35	1.60	1.85	2.10	2.45	2.75	3.40	4.00	4.80	5.10	6.00
1	1.75	2.05	2.40	2.75	3.10	3.50	3.75	4.30	5.00	5.50	5.85	6.30
1 $\frac{1}{4}$	1.30	1.65	2.00	2.40	2.80	3.20	3.60	4.30	4.80	5.00	5.25	6.00
1 $\frac{1}{2}$	1.50	1.90	2.40	2.90	3.30	3.90	4.50	5.25	5.85	6.25	6.50	7.00
1 $\frac{3}{4}$	1.95	2.40	2.85	3.55	3.95	4.20	4.95	6.15	6.85	7.25	7.65	8.25
1 $\frac{1}{2}$	2.10	2.70	3.35	4.00	4.65	5.25	5.85	6.50	7.60	8.00	8.50	9.50
1 $\frac{3}{4}$	2.85	3.45	4.15	5.00	5.75	6.50	7.00	8.25	9.25	9.75	10.50	11.50
2	3.15	3.80	4.60	5.50	6.25	7.25	7.75	9.00	10.00	10.75	11.50	12.75
2	4.10	5.25	6.40	7.65	8.80	10.60	11.50	12.25	13.50	14.25	15.00	16.00
2	4.50	5.75	7.00	8.50	9.75	11.75	12.75	13.50	15.00	15.75	16.50	17.50
2	4.50	5.75	7.00	8.50	9.75	11.75	12.75	13.50	15.00	15.75	16.50	17.50

Branch Tees with back outlet, use next higher list.

HOOK PLATES, COIL STANDS, ETC.



PLATE A
HOOK PLATE.



PLATE B
EXPANSION PLATE.



PLATE C
RING PLATE.



PLATE D
COIL STANDS.

Number of Branches.....	1	2	3	4	5	6	7	8	9	10	11	12
$\frac{3}{4}$ inch Hook Plates.....	.08	.16	.21	.24	.28	.34	.40	.45	.50	.56	.68	.72
1 inch Hook Plates.....	.09	.18	.23	.26	.32	.38	.48	.59	.65	.70	.85	1.00
1 $\frac{1}{4}$ inch Hook Plates.....	.10	.21	.27	.32	.41	.52	.68	.80	.90	1.20	1.35	1.40
1 $\frac{1}{2}$ inch Hook Plates.....	.15	.28	.43	.58	.72	.88	1.10	1.25	1.40	1.55	1.65	1.90
2 inch Hook Plates.....	.22	.43	.65	.90	1.15	1.35	1.77	.90	1.05	1.25	1.45	1.65
$\frac{3}{4}$ in. Exp. Hook Plates.....	.14	.23	.34	.45	.55	.65	.77	.90	1.05	1.25	1.45	1.65
1 in. Exp. Hook Plates.....	.15	.25	.35	.50	.60	.70	.80	.95	1.10	1.35	1.55	1.70
1 $\frac{1}{4}$ in. Exp. Hook Plates.....	.17	.27	.40	.60	.70	.80	.90	1.15	1.30	1.50	1.70	2.00
1 $\frac{1}{2}$ in. Exp. Hook Plates.....	.25	.40	.60	.75	.90	1.00	1.25	1.40	1.60	1.80	2.00	2.25
1 inch Ring Plates.....	.16	.28	.41	.50	.62	.72	.86	1.00	1.20	1.30	1.40	1.50
1 $\frac{1}{4}$ inch Ring Plates.....	.21	.35	.50	.62	.75	1.10	1.25	1.40	1.60	1.80	2.00	2.25

HOOK, EXPANSION AND RING PLATES-SINGLE.



PLATE E

Size Pipe.....Inches	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Hook Plates, Single.....Each	.08	.09	.10	.15	.22	.30	.40
Expansion Plates, Single.....Each	.12	.17	.25	.....	.....	.....	.....
Ring Plates, Single.....Each	.16	.21	.....	.....	.....	.....	.....

FLOOR AND CEILING PLATES.

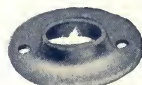


PLATE F
FLOOR PLATE.

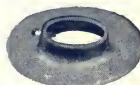


PLATE G
CEILING PLATE.

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6
Floor Plates.....Each66	.06	.08	.11	.14	.16	.24	.30	.35	.42	.....	.60	.75	.....
Ceiling Plates.....Each11	.13	.16	.18	.23	.27	.36	.50	.55	.68	.....	.95	1.25	.....



PLATE H
GAS PIPE HOOKS.



PLATE I
PIPE STRAPS, TINNED.

Size...Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ and 2 ins.
Price. Per 100	.45	.55	.65	.80	1.00	1.30	1.60	2.00	Price.....Per Pound, .18

WROUGHT IRON NIPPLES

THREADED RIGHT HAND

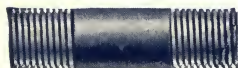


PLATE A SHOULDER NIPPLE.



PLATE B CLOSE NIPPLE.

In Effect October 7th, 1899.

Length in Inches					Sizes	Prices		Length and Prices Ex. Long Nipples			
Close	Short	Long				Close or Short	Long	4	5	6	
$\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{8}$	.04	.06	.07	.08	.10
$\frac{7}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{4}$	.04	.06	.07	.08	.10
1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{3}{8}$	.04	.06	.07	.08	.10
$1\frac{1}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{2}$	.05	.07	.08	.10	.12
$1\frac{3}{8}$	2	2	$\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{3}{4}$	.06	.09	.....	.11	.13
$1\frac{1}{2}$	2	2	$\frac{1}{2}$	3	$3\frac{1}{2}$	1	.08	.13	.....	.15	.18
$1\frac{5}{8}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{4}$	.11	.17	.....	.20	.24
$1\frac{3}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{2}$	.13	.20	.....	.25	.29
2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	2	.18	.27	.....	.32	.38
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$2\frac{1}{2}$	.39	.59	.....	.....	.68
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	3	.48	.72	.....	.....	.85
$2\frac{3}{4}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$3\frac{1}{2}$	.75	1.05	.....	.....	.....
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	4	.85	1.20	.....	.....	.....
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$4\frac{1}{2}$	1.25	1.70	.....	.....	.....
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	5	1.55	2.45	.....	.....	.....
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	6	1.85	2.90	.....	.....	.....
4	5	6				7	3.20	3.60	.....	.....	.....
4	5	6				8	3.55	4.05	.....	.....	.....
5	6	8				9	5.25	6.50	.....	.....	.....
5	6	8				10	6.75	8.25	.....	.....	.....
5	6	8				12	8.00	10.00	.....	.....	.....

NOTE.—Nipples longer than six inches are not regularly kept in stock, but are cut to order only. Prices will be based on the price of Pipe with charges for cutting and threading added. List prices of Extra Heavy Nipples will be three times the list of regular nipples.

WROUGHT IRON NIPPLES THREADED RIGHT AND LEFT

Length in Inches						Sizes	Prices		Length and Prices Ex. Long Nipples		
Close	Short	Long					Close or Short	Long	4	5	6
3/4	1 1/2	2	2 1/2	3	3 1/2	1 1/8	.05	.08	.09	.11	.13
7/8	1 1/2	2	2 1/2	3	3 1/2	1 1/4	.05	.08	.09	.11	.13
1	1 1/2	2	2 1/2	3	3 1/2	1 1/2	.05	.08	.09	.11	.13
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1 3/4	.07	.10	.11	.13	.16
1 1/4	2	2 1/2	3	3 1/2	4	2	.08	.12	.13	.15	.17
1 1/2	2	2 1/2	3	3 1/2	4	2 1/8	.11	.18	.20	.22	.24
1 3/8	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.15	.23	.27	.32	.37
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.18	.27	.34	.39	.45
2	2 1/2	3	3 1/2	4	4 1/2	2	.24	.36	.43	.51	.59
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	.52	.79	.91	.91	.91
2 3/4	3	3 1/2	4	4 1/2	5	3	.65	.96	1.13	1.13	1.13
3	4	4 1/2	5	5 1/2	6	3 1/2	1.00	1.40			
	4	4 1/2	5	5 1/2	6	4	1.15	1.60			

Add 60 per cent. to above prices for galvanized nipples threaded right and left.
NOTE.—Nipples longer than six inches are not regularly kept in stock, but are cut to order only. Prices will be based on the price of Pipe with charges for cutting and threading added. List prices of Extra Heavy Nipples will be three times the list of regular nipples.

WROUGHT IRON GALVANIZED NIPPLES THREADED RIGHT HAND

Length in Inches						Sizes	Prices		Length and Prices Ex. Long Nipples		
Close	Short	Long					Close or Short	Long	4	5	6
3/4	1 1/2	2	2 1/2	3	3 1/2	1 1/8	.06	.11	.12	.15	.17
7/8	1 1/2	2	2 1/2	3	3 1/2	1 1/4	.06	.11	.12	.15	.17
1	1 1/2	2	2 1/2	3	3 1/2	1 1/2	.06	.11	.12	.15	.17
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1 3/4	.06	.11	.13	.16	.18
1 1/2	2	2 1/2	3	3 1/2	4	2	.08	.14	.18	.21	.24
1 3/8	2	2 1/2	3	3 1/2	4	1 1/4	.11	.19	.24	.28	.32
1 1/2	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.17	.29	.32	.38	.44
1 3/4	2 1/2	3	3 1/2	4	4 1/2	2	.21	.35	.39	.46	.52
2	3	3 1/2	4	4 1/2	5	2 1/2	.27	.47	.52	.61	.69
2 1/2	3	3 1/2	4	4 1/2	5	3	.56	.83	1.00	1.00	1.00
2 3/4	3	3 1/2	4	4 1/2	5	3 1/2	.70	1.10	1.30	1.30	1.30
3	4	4 1/2	5	5 1/2	6	4	1.20	1.70			
3 1/2	4	4 1/2	5	5 1/2	6	4 1/2	1.35	1.87			
3 3/4	4 1/2	5	5 1/2	6	6 1/2	5	1.85	2.60			
4	4 1/2	5	5 1/2	6	6 1/2	5 1/2	2.30	3.15			
4 1/2	5	5 1/2	6	6 1/2	7	6	2.80	4.25			
5	6	6 1/2	7	8	7	7	4.25	4.95			
6	6 1/2	7	8	9	8	8	5.00	5.80			

NOTE.—Nipples longer than six inches are not regularly kept in stock, but are cut to order only. Prices will be based on the price of Pipe with charges for cutting and threading added. List prices of Extra Heavy Nipples will be three times the list of regular nipples.

CAST IRON LONG TURN FITTINGS.

SCREWED



PLATE A
NO. 1. WATER ELBOW



PLATE B
NO. 2. DOUBLE BRANCH WATER ELBOW

WATER ELBOWS-SCREWED

Size.....Inches	1	1 ¼	1 ½	2	2 ½	3	3 ½	4
No. 1.....Each	.32	.40	.55	.80	1.20	2.25	3.25	3.50
No. 2.....Each	.64	.80	1.10	1.60	2.40	4.50	6.50	7.00

Size.....Inches	4 ½	5	6	7	8	9	10	12
No. 1.....Each	5.50	6.50	8.75	13.00	17.00	25.50	30.00	40.00
No. 2.....Each	11.00	13.00	17.50	26.00	34.00	51.00	60.00	80.00



PLATE C
NO. 3. WATER TEE, SINGLE SWEEP

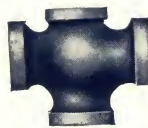


PLATE D
NO. 4. WATER CROSS

WATER TEE AND CROSS-SCREWED

Size.....Inches	1	1 ¼	1 ½	2	2 ½	3	3 ½	4
No. 3.....Each	.48	.60	.82	1.20	1.80	3.40	4.90	5.25
No. 4.....Each	.85	1.10	1.50	2.15	3.20	6.00	8.75	9.50

Size.....Inches	4 ½	5	6	7	8	9	10	12
No. 3.....Each	8.25	9.75	13.25	19.50	25.50	38.00	45.00	60.00
No. 4.....Each	15.00	17.50	24.00	35.00	45.00	68.00	80.00	107.00

CAST IRON LONG TURN FITTINGS. SCREWED



PLATE A

NO. 5. WATER TEE, DOUBLE SWEEP



PLATE B

NO. 6. SWEEP CROSS

SWEEP TEE AND CROSS SCREWED

Size.....Inches	1	1¼	1½	2	2½	3	3½	4
No. 5.....Each	.64	.80	1.10	1.60	2.40	4.50	6.50	7.00
No. 6.....Each	.85	1.10	1.50	2.15	3.20	6.00	8.75	9.50
Size.....Inches	4½	5	6	7	8	9	10	12
No. 5.....Each	11.00	13.00	17.50	26.00	34.00	51.00	60.00	80.00
No. 6.....Each	15.00	17.50	24.00	35.00	45.00	68.00	80.00	107.00

These fittings are made in reducing sizes by filling up ends, thus avoiding the use of screwed bushings.

For Reducing Sizes add 50% to the above list.

For Galvanized Fittings double the above list.

EXTRA LONG TURN ELBOW. SCREWED



PLATE C

Size.....Inches	1	1¼	1½	2	2½	3	3½	4
Each.....	.50	.70	.90	1.20	2.00	3.00	4.00	5.00
Size.....Inches	4½	5	6	7	8	9	10	12
Each.....	7.00	9.00	13.00	20.00	26.00	31.00	40.00	60.00

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS



PLATE A



PLATE B

Size	Faced Only	Faced and Drilled	Centre To Face	Diameter Of Flange	Faced Only	Faced and Drilled	Centre To Face
2	4.75	5.75	4½	6	5.25	6.25	2½
2½	5.00	6.25	5	7	5.50	6.75	3
3	5.75	7.00	5½	7½	6.25	7.50	3
3½	6.50	7.75	6	8½	7.25	8.50	3½
4	7.25	9.25	6½	9	8.00	10.00	4
4½	9.00	11.00	7	9½	10.00	12.00	4
5	9.75	11.75	7½	10	10.75	12.75	4½
6	12.00	14.00	8	11	13.00	15.00	5
7	16.00	19.75	8½	12½	16.00	19.75	5½
8	20.00	23.75	9	13½	20.00	23.75	5½
9	26.00	30.00	10	15	26.00	30.00	6
10	32.00	36.00	11	16	32.00	36.00	6½
12	44.00	50.00	12	19	44.00	50.00	7½
14	58.00	65.00	14	21	58.00	65.00	7½
15	72.00	80.00	14½	22½	72.00	80.00	8
16	84.00	93.00	15	23½	84.00	93.00	8
18	108.00	118.00	16½	25	108.00	118.00	8½
20	135.00	148.00	18	27½	135.00	148.00	9½
24	200.00	220.00	22	32	200.00	220.00	11

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS



PLATE A
TEE



PLATE B
REDUCING TEE

Size	Faced Only	Faced and Drilled	Cent'e to Face of Run	Cent'e to Face of Outlet	Dia. of Flgs	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Size of Outlet
2	7.00	8.50	4½	4½	6	8.00	9.50	4½	4½	...
2½	7.25	9.00	5	5	7	8.25	10.00	5	5	...
3	8.25	10.00	5½	5½	7½	9.50	11.25	5½	5½	...
3½	9.50	11.25	6	6	8½	11.00	12.75	6	6	...
4	10.50	13.50	6½	6½	9	12.00	15.00	6½	6½	...
4½	13.00	16.00	7	7	9¾	15.00	18.00	7	7	...
6	14.25	17.25	7½	7½	10	16.25	19.25	7½	7½	...
6	17.50	20.50	8	8	11	20.00	23.00	8	8	...
7	23.00	28.75	8½	8½	12½	26.50	32.00	8½	8½	...
8	29.00	34.75	9	9	13½	33.50	39.00	9	9	...
9	38.00	44.00	10	10	15	43.50	50.00	10	10	...
10	46.50	52.50	11	11	16	53.50	60.00	9	9½	6
12	64.00	73.00	12	12	19	74.00	83.00	10	11	8
14	84.00	95.00	14	14	21	96.00	107.00	11	13	9
15	105.00	117.00	14½	14½	22½	120.00	132.00	11½	13½	9
16	122.00	135.00	15	15	23½	140.00	153.00	12	14	10
18	155.00	170.00	16½	16½	25	178.00	193.00	...	...	...
20	195.00	215.00	18	18	27½	225.00	245.00	...	...	...
24	290.00	320.00	...	...	32	335.00	365.00	...	...	...

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS.

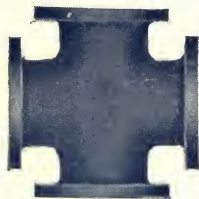


PLATE A
CROSS.



PLATE B
CROSS, REDUCING.

Size	Faced Only	Faced and Drilled	Cent'e to Face of Run	Cent'e to Face of Outlet	Dia. of Flgs	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Size of Outlet
2	9.50	11.50	4½	4½	6	11.00	13.00	If fittings are not changed by reductions in run. In all other cases dimensions of straight fittings govern centre to face of run.	4½	.....
2½	10.00	12.50	5	5	7	11.50	14.00		5	.....
3	11.50	14.00	5½	5½	7½	13.25	15.75		5½	.....
3½	13.00	15.50	6	6	8½	15.00	17.50		6	.....
4	14.50	18.50	6½	6½	9	16.75	20.75		6½	.....
4½	18.00	22.00	7	7	9¾	20.75	25.00		7	.....
5	19.50	23.50	7½	7½	10	22.50	26.50		7½	.....
6	24.00	28.00	8	8	11	27.50	31.50		8	.....
7	32.00	39.50	8½	8½	12½	37.00	45.00		8½	.....
8	40.00	47.50	9	9	13½	46.00	53.50		9	.....
9	52.00	60.00	10	10	15	60.00	68.00	When fittings have outlet of size given in last column or smaller, these dimensions govern centre to face of outlet. In all other cases dimensions of straight fittings govern centre to face of outlet.	10	.....
10	64.00	72.00	11	11	16	74.00	82.00		9	6
12	88.00	100.00	12	12	19	100.00	112.00		10	8
14	116.00	130.00	14	14	21	132.00	146.00		11	9
15	144.00	160.00	14½	14½	22½	165.00	180.00		11½	9
16	168.00	186.00	15	15	23½	193.00	210.00		12	10
18	216.00	236.00	16½	16½	25	248.00	268.00		.....	.....
20	270.00	296.00	18	18	27½	310.00	335.00		.....	.....
24	400.00	440.00	22	22	32	460.00	500.00		.....	.....

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS.

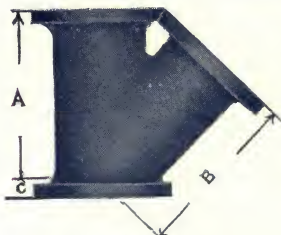
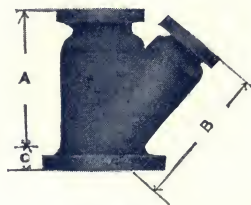


PLATE A
STANDARD Y'S.



PLETE B
REDUCING Y'S.

Size	Faced Only	Faced and Drilled	A or B	A and C	A	Dia. of Flgs	Faced Only	Faced and Drilled	A or B	A and C	A
2	9.50	11.50	8	10 1/2	2 1/2	6	11.00	13.00	8	10 1/2	2 1/2
2 1/2	10.00	12.50	9 1/2	12	2 1/2	7	11.50	14.00	9 1/2	12	2 1/2
3	11.50	14.00	10	13	3	7 1/2	13.25	15.75	10	13	3
3 1/2	13.00	15.50	11 1/2	14 1/2	3	8 1/2	15.00	17.50	11 1/2	14 1/2	3
4	14.50	18.50	12	15	3	9	16.75	20.75	12	15	3
4 1/2	18.00	22.00	12 1/2	15 1/2	3	9 3/4	20.75	25.00	12 1/2	15 1/2	3
5	19.50	23.50	13 1/2	17	3 1/2	10	22.50	26.50	13 1/2	17	3 1/2
6	24.00	28.00	14 1/2	18	3 1/2	11	27.50	31.50	14 1/2	18	3 1/2
7	32.00	39.50	16 1/2	20 1/2	4	12 1/2	37.00	45.00	16 1/2	20 1/2	4
8	40.00	47.50	17 1/2	22	4 1/2	13 1/2	46.00	53.50	17 1/2	22	4 1/2
9	52.00	60.00	19 1/2	24	4 1/2	15	60.00	68.00	19 1/2	24	4 1/2
10	64.00	72.00	20 1/2	25 1/2	5	16	74.00	82.00	20 1/2	25 1/2	5
12	88.00	100.00	24 1/2	30	5 1/2	19	100.00	112.00	24 1/2	30	5 1/2
14	116.00	130.00	27	33	6	21	132.00	146.00	27	33	6
15	144.00	160.00	28 1/2	34 1/2	6	22 1/4	165.00	180.00	28 1/2	34 1/2	6
16	168.00	186.00	30	36 1/2	6 1/2	23 1/2	193.00	210.00	30	36 1/2	6 1/2
18	216.00	236.00	32	39	7	25	248.00	268.00	32	39	7
20	270.00	296.00	35	43	8	27 1/2	310.00	335.00	35	43	8
24	400.00	440.00	40 1/2	49 1/2	9	32	460.00	500.00	40 1/2	49 1/2	9

Dimensions are not changed by reduction in run or branch, except in extreme cases when new dimensions will be given on application.

NOTE—Same as preceding column.

NOTE—Same as preceding column.

All fittings furnished faced only unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS.

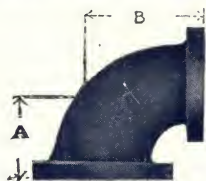


PLATE A
REDUCING ELBOW.

Size, Inches	Price Faced	Price Faced and Drilled	Centre to Face, Inches	Diameter of Flanges, Inches	Size, Inches	Price Faced	Price Faced and Drilled	Centre to Face, Inches	Diameter of Flanges, Inches
3 x 1½	11.50	14.00	5½	7½x 5	8x 4	40.00	47.50	9	13½x 9
3 x 2	11.50	14.00	5½	7½x 6	8x 5	40.00	47.50	9	13½x10
3 x 2½	11.50	14.00	5½	7½x 7	8x 6	40.00	47.50	9	13½x11
3½x2½	13.00	15.50	6	8½x 7	9x 8	52.00	60.00	10	15 x13½
3½x3	13.00	15.50	6	8½x 7½	10x 5	64.00	72.00	11	16 x10
4 x 2	14.50	18.50	6½	9 x 6	10x 6	64.00	72.00	11	16 x11
4 x 2½	14.50	18.50	6½	9 x 7	10x 8	64.00	72.00	11	16 x13½
4 x 3	14.50	18.50	6½	9 x 7½	10x 9	64.00	72.00	11	16 x15
5 x 2½	19.50	23.50	7½	10 x 7	12x 6	88.00	100.00	12	19 x11
5 x 3	19.50	23.50	7½	10 x 7½	12x 7	88.00	100.00	12	19 x12½
5 x 4	19.50	23.50	7½	10 x 9	12x 8	88.00	100.00	12	19 x13½
6 x 2½	24.00	28.00	8	11 x 7	12x10	88.00	100.00	12	19 x16
6 x 3	24.00	28.00	8	11 x 7½	14x10	116.00	130.00	14	21 x16
6 x 3½	24.00	28.00	8	11 x 8½	14x12	116.00	130.00	14	21 x19
6 x 4	24.00	28.00	8	11 x 9	15x10	144.00	160.00	14½	22¼x16
6 x 5	24.00	28.00	8	11 x10	15x12	144.00	160.00	14½	22¼x19
7 x 5	32.00	39.50	8½	12½x10	16x12	168.00	186.00	15	23½x19
7 x 6	32.00	39.50	8½	12½x11	16x14	168.00	186.00	15	23½x21
8 x 3½	40.00	47.50	9	13½x 8½	16x15	168.00	186.00	15	23½x22¼

Flanged Fittings will always be furnished faced only, unless otherwise ordered.
Flanged Taper Reducing Elbows not listed above will be made to order at special prices.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS.



PLATE A
ELBOW, FLANGED.

Size Inches	Price Faced Each	Price Faced and Drilled Each	Center to Face Inches	Center to Face of Base Inches	Diameter Flanges Inches	Size Base Inches
4	12.00	15.00	6 1/2	6 1/2	9	6
4 1/2	15.00	18.00	7	6 3/4	9 1/4	6
5	16.25	19.25	7 1/2	7	10	7
6	20.00	23.00	8	7 1/2	11	7
7	23.50	32.00	8 1/2	8 1/4	12 1/2	7
8	33.50	39.00	9	8 3/4	13 1/2	9
9	43.50	50.00	10	9 1/2	15	9
10	53.50	60.00	11	10	16	9
12	74.00	83.00	12	10 1/2	19	11
14	96.00	107.00	14	13 1/2	21	11
15	120.00	132.00	14 1/2	14	22 1/4	11
16	140.00	153.00	15	14 3/4	23 1/2	11

Flanged fittings will always be furnished faced only, unless otherwise ordered.

CAST IRON STANDARD FLANGED FITTINGS.

WORKING PRESSURES UP TO 125 POUNDS.



PLATE A

LONG RADIUS FLANGED ELBOW.



PLATE B

REDUCER

Size	Faced Only	Faced and Drilled	Centre to Face	Dia. of Flanges	Faced Only	Faced and Drilled	Face to Face	Standard Sizes
2	9 50	11 50	10	6	7.00	8 50	4 1/2	2 x 1 1/2 and less
2 1/2	10 00	12 50	10	7	7.25	9 00	5	2 1/4 x 2 and less
					8.25	10 00	5 1/2	3 x 2 1/2 and less
3	11 50	14 00	12	7 1/2	9 50	11 25	6	3 1/4 x 3 and less
					10 50	13 50	6 1/2	4 x 3 1/2 and less
3 1/2	13 00	15 50	14	8 1/2	13 00	16 00	6 3/4	4 1/4 x 4 and less
					14 25	17 25	7	5 x 4 1/2 and less
4	14 50	18 50	14	9	17 50	20 50	7 1/2	6 x 5 and less
					23 00	28 75	8	7 x 6 and less
4 1/2	18 00	22 00	14	9 1/2	29 00	34 75	9	8 x 4 and over
					40 00	47 50	13 1/2	8 x 3 1/2 and less
5	19 50	23 50	15	10	38 00	44 00	9 1/2	9 x 4 and over
					52 00	60 00	14 1/2	9 x 3 1/2 and less
6	24 00	28 00	16	11	46 50	52 50	10	10 x 5 and over
					64 00	72 00	15 1/2	10 x 4 1/2 and less
7	32 00	39 50	17 1/2	12 1/2	64 00	73 00	11 1/2	12 x 6 and over
					88 00	100 00	16 1/2	12 x 5 and less
8	40 00	47 50	18	13 1/2	84 00	95 00	12 1/2	14 x 6 and over
					116 00	130 00	16 1/2	14 x 7 and less
9	52 00	60 00	18	15	105 00	117 00	13	15 x 10 and over
					144 00	160 00	20	15 x 9 and less
10	64 00	72 00	18	16	122 00	135 00	14	16 x 10 and over
					168 00	186 00	22	16 x 9 and less
12	110 00	120 00	28 1/2	19	155 00	170 00	15	18 x 10 and over
					216 00	236 00	22	18 x 9 and less
14	160 00	175 00	33	21	195 00	215 00	16	20 x 12 and over
					270 00	296 00	26	20 x 10 and less
15	180 00	200 00	33	22 1/4	290 00	320 00	19 1/2	24 x 12 and over
					400 00	440 00	30	24 x 10 and less
16	200 00	220 00	33	23 1/2				
18	.....	.....	36	25				
20	.....	.....	42	27 1/2				
24	.....	.....	48	32				

We make reducers with lengths differing from above both in regular and eccentric pattern.

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

STANDARD CAST IRON FLANGES.

WORKING PRESSURES UP TO 125 POUNDS.



PLATE A

CAST IRON, THREADED.



PLATE B

CAST IRON, BLANK.

Size	Faced Only	Faced and Drilled	Outside Diameter	Faced Only	Faced and Drilled
2	1.20	1.50	6	1.40	1.70
2½	1.40	2.00	7	1.60	2.20
3	1.60	2.25	7½	1.85	2.50
3½	1.80	2.50	8½	2.10	2.80
4	2.15	3.00	9	2.50	3.35
4½	2.50	3.35	9½	2.90	3.75
5	2.80	3.65	10	3.25	4.10
6	3.20	4.00	11	3.70	4.50
7	4.35	5.75	12½	5.00	6.40
8	5.00	6.50	13½	5.75	7.25
9	6.75	8.25	15	7.75	9.25
10	7.75	9.25	16	9.00	10.60
12	10.50	12.50	19	14.00	16.00
14	13.75	16.00	21	17.50	19.75
15	18.00	21.00	22½	22.50	25.50
16	22.50	26.00	23½	28.00	31.50
18	27.50	31.00	25	33.00	36.50
20	30.00	34.00	27½	36.00	40.00
24	41.00	46.00	32	50.00	55.00

We also make upon specification and at special prices cast steel and rolled steel flanges of the highest grade.

STANDARD CAST IRON REDUCING FLANGES

WORKING PRESSURES UP TO 125 POUNDS



PLATE A
REDUCING FLANGE.

Size	Faced Only	Faced and Drilled	Size	Faced Only	Faced and Drilled	Size	Faced Only	Faced and Drilled
2 x 7	2.10	3.00	4 x 11	4.75	6.00	8 x 16	11.50	14.00
2 x 7½	2.40	3.35	4½ x 11	4.75	6.00	9 x 16	11.50	14.00
2½ x 7½	2.40	3.35	5 x 11	4.75	6.00	6 x 19	15.75	18.75
2 x 8½	2.70	3.75	4 x 12½	6.50	8.50	7 x 19	15.75	18.75
3½ x 8½	2.70	3.75	5 x 12½	6.50	8.50	8 x 19	15.75	18.75
3 x 8½	2.70	3.75	6 x 12½	6.50	8.50	9 x 19	15.75	18.75
2 x 9	3.25	4.50	2 x 13½	7.50	9.75	10 x 19	15.75	18.75
2½ x 9	3.25	4.50	2½ x 13½	7.50	9.75	8 x 21	20.00	24.00
3 x 9	3.25	4.50	3 x 13½	7.50	9.75	9 x 21	20.00	24.00
3½ x 9	3.25	4.50	3½ x 13½	7.50	9.75	10 x 21	20.00	24.00
2½ x 9½	3.75	5.00	4 x 13½	7.50	9.75	12 x 21	20.00	24.00
3 x 9½	3.75	5.00	5 x 13½	7.50	9.75	10 x 23½	34.00	39.00
3½ x 9½	3.75	5.00	6 x 13½	7.50	9.75	12 x 23½	34.00	39.00
4 x 9½	3.75	5.00	7 x 13½	7.50	9.75	14 x 23½	34.00	39.00
2 x 10	4.25	5.50	6 x 15	10.00	12.25	12 x 25	41.00	46.00
2½ x 10	4.25	5.50	7 x 15	10.00	12.25	14 x 25	41.00	46.00
3 x 10	4.25	5.50	8 x 15	10.00	12.25	16 x 25	41.00	46.00
3½ x 10	4.25	5.50	2½ x 16	11.50	14.00	14 x 27½	45.00	51.00
4 x 10	4.25	5.50	3 x 16	11.50	14.00	16 x 27½	45.00	51.00
4½ x 10	4.25	5.50	3½ x 16	11.50	14.00	18 x 27½	45.00	51.00
2 x 11	4.75	6.00	4 x 16	11.50	14.00	14 x 32	61.00	70.00
2½ x 11	4.75	6.00	5 x 16	11.50	14.00	16 x 32	61.00	70.00
3 x 11	4.75	6.00	6 x 16	11.50	14.00	18 x 32	61.00	70.00
3½ x 11	4.75	6.00	7 x 16	11.50	14.00	20 x 32	61.00	70.00

We also make upon specification and at special prices cast steel and rolled steel flanges of the highest grade.



STANDARD TEMPLETS FOR DRILLING.

WORKING PRESSURES UP TO 125 POUNDS.

Adopted by Master Steam Fitters' Association and American Society
Mechanical Engineers.

Size Flange	Number of Bolts	Size of Bolts	Length of Bolts	Diameter of Bolt Circle
2 x 6	4	$\frac{3}{8}$	2	$4\frac{1}{4}$
$2\frac{1}{2}$ x 7	4	$\frac{3}{8}$	$2\frac{1}{4}$	$5\frac{1}{2}$
3 x $7\frac{1}{2}$	4	$\frac{3}{8}$	$2\frac{1}{2}$	6
$3\frac{1}{2}$ x $8\frac{1}{2}$	4	$\frac{3}{8}$	$2\frac{1}{2}$	7
4 x 9	4	$\frac{3}{4}$	$2\frac{3}{4}$	$7\frac{1}{2}$
$4\frac{1}{2}$ x $9\frac{1}{4}$	8	$\frac{3}{4}$	3	$7\frac{3}{4}$
5 x 10	8	$\frac{3}{4}$	3	$8\frac{1}{2}$
6 x 11	8	$\frac{3}{4}$	3	$9\frac{1}{2}$
7 x $12\frac{1}{2}$	8	$\frac{3}{4}$	3	$10\frac{3}{4}$
8 x $13\frac{1}{2}$	8	$\frac{3}{4}$	$3\frac{1}{4}$	$11\frac{3}{4}$
9 x 15	12	$\frac{3}{4}$	$3\frac{1}{4}$	$13\frac{1}{4}$
10 x 16	12	$\frac{3}{4}$	$3\frac{1}{2}$	$14\frac{1}{4}$
12 x 19	12	$\frac{3}{8}$	$3\frac{3}{4}$	17
14 x 21	12	1	$4\frac{1}{4}$	$18\frac{3}{4}$
15 x $22\frac{1}{4}$	16	1	$4\frac{1}{4}$	20
16 x $23\frac{1}{2}$	16	1	$4\frac{1}{4}$	$21\frac{1}{4}$
18 x 25	16	$1\frac{1}{8}$	$4\frac{3}{4}$	$22\frac{3}{4}$
20 x $27\frac{1}{2}$	20	$1\frac{1}{8}$	5	25
24 x 32	20	$1\frac{1}{4}$	$5\frac{1}{2}$	$29\frac{1}{2}$

All drills are in multiples of fours, so they may be used at any quarter. All holes straddle centre lines. We also drill to any desired templet.

EXTRA HEAVY CAST IRON FLANGED FITTINGS.

[WORKING PRESSURES UP TO 250 POUNDS



PLATE A
ELBOW.



PLATE B
45° ELBOW

Size	Faced Only	Faced and Drilled	Centre to Face	Diameter of Flanges	Faced Only	Faced and Drilled	Centre to Face.
2	7.00	8.50	5	6½	7.75	9.00	3
2½	7.75	9.25	5½	7½	8.50	10.00	3½
3	8.75	10.50	6	8¼	9.50	11.00	3½
3½	9.75	11.50	6½	9	10.75	12.50	4
4	10.75	13.50	7	10	12.00	15.00	4½
4½	13.50	16.50	7½	10½	15.00	18.00	4½
5	15.00	17.75	8	11	16.50	19.50	5
6	18.00	21.00	8½	12½	19.50	22.50	5½
7	24.00	28.00	9	14	24.00	28.00	6
8	30.00	35.00	10	15	30.00	35.00	6
9	39.00	45.00	10½	16	39.00	45.00	6½
10	48.00	54.00	11½	17½	48.00	54.00	7
12	66.00	75.00	13	20	66.00	75.00	8
14	100.00	110.00	14½	22½	100.00	110.00	8
15	108.00	120.00	15	23½	108.00	120.00	8½
16	125.00	140.00	16	25	125.00	140.00	9
18	160.00	175.00	17	27	160.00	175.00	9½
20	200.00	220.00	18½	29½	200.00	220.00	10
24	300.00	330.00	22	34	300.00	330.00	11½

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.



EXTRA HEAVY CAST IRON FLANGED FITTINGS.

WORKING PRESSURES UP TO 250 POUNDS



PLATE A
TEE.



PLATE B
REDUCING TEE.

Size	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Dia of Flgs.	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Size of Outlet
2	10.50	12.50	5	5	6½	12.00	14.00	5	5	..
2½	11.50	13.50	5½	5½	7½	13.25	15.25	5½	5½	.....
3	12.50	15.00	6	6	8½	14.50	17.00	6	6	.....
3½	14.50	17.00	6½	6½	9	16.50	19.00	6½	6½	.....
4	16.00	20.00	7	7	10	18.50	22.00	7	7	.....
4½	19.50	24.00	7½	7½	10½	22.50	27.00	7½	7½	.....
5	21.00	26.00	8	8	11	24.50	29.50	8	8	.....
6	28.50	33.50	8½	8½	12½	32.75	37.75	8½	8½	.....
7	37.50	45.50	9	9	14	43.25	51.25	9	9	.....
8	43.00	51.00	10	10	15	50.00	58.00	10	10	.....
9	57.00	66.00	10½	10½	16	65.00	74.00	10½	10½	.....
10	70.00	78.00	11½	11½	17½	80.00	88.00	9	11	6
12	96.00	110.00	13	13	20	110.00	124.00	10½	12½	8
14	135.00	150.00	14½	14½	22½	155.25	170.25	11	13½	9
15	157.00	172.00	15	15	23½	180.00	195.00	11½	13½	9
16	185.00	200.00	16	16	25	210.00	225.00	12	15	10
18	230.00	250.00	17	17	27	265.00	285.00	13½	16½	12
20	290.00	320.00	18½	18½	29½	340.00	370.00	15	17½	14
24	435.00	475.00	22	22	34	500.00	540.00	15	19½	15

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.



EXTRA HEAVY CAST IRON FLANGED FITTINGS.

WORKING PRESSURES UP TO 250 POUNDS.

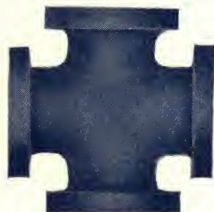


PLATE A
CROSS.

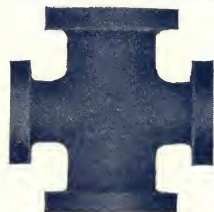


PLATE B
CROSS, REDUCING.

Size	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Dia. of Flgs	Faced Only	Faced and Drilled	Centre to Face of Run	Centre to Face of Outlet	Size of Outlet
2	14.00	17.00	5	5	6 1/2	16.50	19.50	5	5	...
2 1/2	15.50	18.50	5 1/2	5 1/2	7 1/2	18.00	21.00	5 1/2	5 1/2	...
3	17.50	21.00	6	6	8 1/4	20.50	24.00	6	6	...
3 1/2	19.50	23.00	6 1/2	6 1/2	9	22.50	26.00	6 1/2	6 1/2	...
4	21.50	27.00	7	7	10	25.50	31.00	7	7	...
4 1/2	27.00	33.00	7 1/2	7 1/2	10 1/2	31.00	37.00	7 1/2	7 1/2	...
5	30.00	36.00	8	8	11	34.00	40.00	8	8	...
6	36.00	42.00	8 1/2	8 1/2	12 1/2	41.00	47.00	8 1/2	8 1/2	...
7	48.00	59.00	9	9	14	55.00	66.00	9	9	...
8	60.00	70.00	10	10	15	70.00	80.00	10	10	...
9	78.00	90.00	10 1/2	10 1/2	16	90.00	102.00	10 1/2	10 1/2	...
10	96.00	108.00	11 1/2	11 1/2	17 1/2	110.00	122.00	11 1/2	11 1/2	6
12	132.00	150.00	13	13	20	150.00	168.00	13	13	8
14	174.00	194.00	14 1/2	14 1/2	22 1/2	198.00	218.00	14 1/2	14 1/2	9
15	215.00	240.00	15	15	23 1/2	245.00	270.00	15	15	9
16	250.00	280.00	16	16	25	285.00	315.00	16	16	10
18	320.00	350.00	17	17	27	372.00	402.00	17	17	12
20	400.00	440.00	18 1/2	18 1/2	29 1/2	465.00	505.00	18 1/2	18 1/2	14
24	600.00	660.00	22	22	34	690.00	750.00	22	22	15

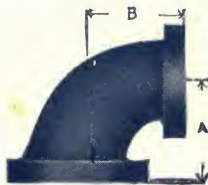
All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

EXTRA HEAVY CAST IRON FLANGED FITTINGS.

WORKING PRESSURES UP TO 250 POUNDS.



**PLATE A
LONG RADIUS FLANGED ELBOW.**



**PLATE B
REDUCING ELBOW.**

Size	Faced Only	Faced and Drilled	Centre to Face	Dia. of Flanges	Faced Only	Faced and Drilled	Centre to Face A	Centre to Face B
2	14.50	17.50	10	6½	8.50	10.00	5¼	6¾
2½	15.00	18.75	10	7½	9.50	11.00	5½	7
3	17.50	21.00	12	8¼	10.50	12.00	6¼	7¾
3½	19.50	23.50	14	9	11.50	13.00	6¾	8¼
4	22.00	26.00	14	10	13.00	15.50	7	8½
4½	27.00	32.00	14	10½	16.00	19.00	7½	9
5	30.00	35.00	15	11	18.00	21.00	8	9½
6	36.00	42.00	16	12½	21.00	24.00	8½	10
7	48.00	57.50	17½	14	28.00	32.00	9½	11
8	60.00	70.00	18	15	37.50	42.50	10	13
9	78.00	88.00	18	16	47.00	53.00	10¾	13¾
10	96.00	106.00	18	17½	57.00	63.00	11½	14½
12	165.00	175.00	28½	20	75.00	84.00	12¾	15¾
14	240.00	255.00	33	22½	100.00	110.00	14½	18½
15	270.00	285.00	33	23½	125.00	137.00	15	19
16	300.00	315.00	33	25	150.00	165.00	15	19
18	.....	.....	36	27	190.00	205.00	16½	22½
20	.....	.....	42	29½	235.00	255.00	18	24
24	.....	.....	48	34	400.00	430.00	20½	26½

All fittings furnished **FACED ONLY** unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

EXTRA HEAVY CAST IRON FLANGED FITTINGS

WORKING PRESSURES UP TO 250 POUNDS.

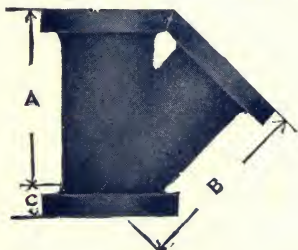


PLATE A
STRAIGHT Y'S.

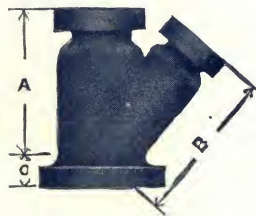


PLATE B
REDUCING Y'S

Size	Faced Only	Faced and Drilled	Centre to Face of Run		Centre to Face of Outlet B	Dia. of Flgs.	Faced Only	Faced and Drilled	Centre to Face of Run		Centre to Face of Outlet B
			A	C					A	C	
2	14.00	17.00	10	2½	10	6½	16.50	19.50	10	2½	10
2½	15.50	18.50	11	3	11	7½	18.00	20.50	11	3	11
3	17.50	21.00	12½	3	12½	8½	20.50	23.50	12½	3	12½
3½	19.50	23.00	13½	3½	13½	9	22.50	26.00	13½	3½	13½
4	21.50	27.00	14½	3½	14½	10	25.50	31.00	14½	3½	14½
4½	27.00	33.00	15½	4	15½	10½	31.00	37.00	15½	4	15½
5	30.00	36.00	16½	4	16½	11	34.00	40.00	16½	4	16½
6	36.00	42.00	18½	4½	18½	12½	41.00	47.00	18½	4½	18½
7	48.00	59.00	20½	5	20½	14	55.00	66.00	20½	5	20½
8	60.00	70.00	21½	5	21½	15	70.00	80.00	21½	5	21½
9	78.00	90.00	23	5½	23	16	90.00	102.00	23	5½	23
10	96.00	108.00	24½	5½	24½	17½	110.00	122.00	24½	5½	24½
12	132.00	150.00	28	6½	28	20	150.00	168.00	28	6½	28
14	174.00	194.00	32	7	32	22½	198.00	218.00	32	7	32
15	215.00	240.00	33½	7½	33½	23½	245.00	270.00	33½	7½	33½
16	250.00	280.00	33½	7½	33½	25	285.00	315.00	33½	7½	33½
18	320.00	350.00	36½	8	36½	27	372.00	402.00	36½	8	36½
20	400.00	440.00	40	9½	40	29½	465.00	505.00	40	9½	40
24	600.00	660.00	46	10	46	34	690.00	750.00	46	10	46

Dimensions are not changed by reduction in run or branch except in extreme cases. New dimensions given on application.

Note.—Same as preceding column.

Note.—Same as preceding column.

EXTRA HEAVY CAST IRON FLANGED FITTINGS.

WORKING PRESSURES UP TO 250 POUNDS.



PLATE A
ELBOW



PLATE B
REDUCER.

Size	Faced Only	Faced and Drilled	Centre to Face	Centre to Base	Faced Only	Faced and Drilled	Face to Face	Size
4	17.50	20.50	7	6	11.50	13.50	5½	2½ x 2 and under
4½	22.00	25.00	7½	6½	12.50	15.00	6¼	3 x 2½ and under
5	25.00	28.00	8	6½	14.50	17.00	6¾	3½ x 3 and under
6	30.00	32.00	8½	7¼	16.00	20.00	7	4 x 3½ and under
7	40.00	45.50	9½	8	19.50	24.00	7½	4½ x 4 and under
8	50.00	55.50	10	8½	21.00	26.00	8	5 x 4½ and under
9	65.00	71.50	10¾	9	28.50	33.50	8½	6 x 5 and under
10	80.00	86.50	11½	9¾	37.50	45.50	9½	7 x 6 and under
12	110.00	119.00	12¾	11	43.00	51.00	10	8 x 4 and over
14	145.00	156.00	14½	12¼	60.00	70.00	15	8 x 3½ and under
15	180.00	192.00	15	12¾	57.00	66.00	10¾	9 x 4 and over
16	210.00	225.00	15	13½	78.00	90.00	16	9 x 3½ and under
18	250.00	270.00	16½	14½	70.00	78.00	11½	10 x 5 and over
20	320.00	350.00	18	16	96.00	108.00	17	10 x 4½ and under
24	475.00	520.00	20½	18	96.00	110.00	12¾	12 x 6 and over
					132.00	150.00	18	12 x 5 and under
					135.00	150.00	14½	14 x 8 and over
					174.00	194.00	18	14 x 7 and under
					157.00	172.00	15	15 x 10 and over
					215.00	240.00	22	15 x 9 and under
					185.00	200.00	15	16 x 10 and over
					250.00	280.00	24	16 x 9 and under
					230.00	250.00	16½	18 x 10 and over
					320.00	350.00	24	18 x 9 and under
					290.00	320.00	18	20 x 12 and over
					400.00	440.00	30	20 x 10 and under
					435.00	475.00	20½	24 x 12 and over
					600.00	660.00	36	24 x 10 and under

All fittings furnished FACED ONLY unless otherwise specified. We can furnish the above fittings in semi-steel or cast steel. Prices on application.

EXTRA HEAVY CAST IRON FITTINGS.

WORKING PRESSURES UP TO 250 POUNDS.



PLATE A
THREADED.



PLATE B
BLANK.

Size	Faced Only	Faced and Drilled	O. D. of Flanges	Faced Only	Faced and Drilled
2	1.50	2.00	6 ½	1.90	2.40
2 ½	2.00	2.50	7 ½	2.50	3.00
3	2.25	3.00	8 ½	2.80	3.60
3 ½	2.50	3.50	9	3.15	4.15
4	3.00	4.00	10	3.75	4.75
4 ½	3.50	4.50	10 ½	4.40	5.40
5	3.75	5.00	11	4.70	6.00
6	4.25	5.75	12 ½	5.30	6.80
7	5.75	7.25	14	7.20	8.70
8	6.50	8.25	15	8.15	9.90
9	8.25	10.00	16	10.30	12.10
10	9.25	11.50	17 ½	11.55	13.80
12	12.50	15.00	20	15.65	18.15
14	16.00	18.50	22 ½	20.00	22.50
15	20.00	23.00	23 ½	25.00	28.00
16	25.00	28.50	25	31.25	34.75
18	32.00	36.00	27	40.00	44.00
20	36.00	40.00	29 ½	45.00	49.00
24	50.00	56.00	34	62.50	68.50

We also make upon specification and at special prices cast steel and rolled steel flanges of the highest grade.

EXTRA HEAVY CAST IRON REDUCING FLANGES.

WORKING PRESSURES UP TO 250 POUNDS.

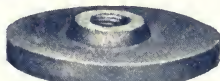


PLATE A
REDUCING FLANGE.

Size, Inches	Price, Faced, Each	Price, Faced and Drilled, Each	Price, Faced, Drilled and Bolted On, Each	Size, Inches	Price, Faced, Each	Price, Faced and Drilled, Each	Price, Faced, Drilled and Bolted On, Each
1 1/2 x 7 1/2	3.00	3.50	4.00	5x16	12.40	14.10	18.10
2 x 7 1/2	3.00	3.50	4.00	6x16	12.40	14.10	18.10
1 1/2 x 8 1/4	3.40	4.15	4.65	7x16	12.40	14.10	18.10
2 x 8 1/4	3.40	4.15	4.65	8x16	12.40	14.10	18.10
2 1/2 x 8 1/4	3.40	4.15	4.65	5x17 1/2	13.90	16.10	21.60
2 x 9	3.75	4.75	5.50	6x17 1/2	13.90	16.10	21.60
2 1/2 x 9	3.75	4.75	5.50	7x17 1/2	13.90	16.10	21.60
3 x 9	3.75	4.75	5.50	8x17 1/2	13.90	16.10	21.60
3 x 10	4.50	5.50	6.50	9x17 1/2	18.75	21.25	27.25
2 1/2 x 10	4.50	5.50	6.50	6x20	18.75	21.25	27.25
3 x 10	4.50	5.50	6.50	7x20	18.75	21.25	27.25
3 1/2 x 10	4.50	5.50	6.50	8x20	18.75	21.25	27.25
2 x 10 1/2	5.25	6.25	7.75	9x20	18.75	21.25	27.25
2 1/2 x 10 1/2	5.25	6.25	7.75	10x20 1/2	24.00	26.50	36.00
3 x 10 1/2	5.25	6.25	7.75	8x22 1/2	24.00	26.50	36.00
3 1/2 x 10 1/2	5.25	6.25	7.75	9x22 1/2	24.00	26.50	36.00
4 x 10 1/2	5.25	6.25	7.75	10x22 1/2	24.00	26.50	36.00
2 x 11	5.60	6.90	8.60	12x22 1/2	30.00	33.00	43.00
2 1/2 x 11	5.60	6.90	8.60	8x23	30.00	33.00	43.00
3 x 11	5.60	6.90	8.60	10x23	30.00	33.00	43.00
3 1/2 x 11	5.60	6.90	8.60	12x23	30.00	33.00	43.00
4 x 11	5.60	6.90	8.60	14x23 1/2	37.50	40.50	51.50
4 1/2 x 11	5.60	6.90	8.60	10x25	37.50	40.50	51.50
2 x 12 1/2	6.40	7.90	9.90	12x25	37.50	40.50	51.50
2 1/2 x 12 1/2	6.40	7.90	9.90	14x25	37.50	40.50	51.50
3 x 12 1/2	6.40	7.90	9.90	15x25	48.00	52.00	64.00
4 x 12 1/2	6.40	7.90	9.90	12x27	48.00	52.00	64.00
4 1/2 x 12 1/2	6.40	7.90	9.90	14x27	48.00	52.00	64.00
5 x 12 1/2	6.40	7.90	9.90	15x27	48.00	52.00	64.00
4 1/2 x 14	8.60	10.10	12.40	16x27	54.00	58.00	74.00
5 x 14	8.60	10.10	12.40	14x29 1/2	54.00	58.00	74.00
6 x 14	8.60	10.10	12.40	15x29 1/2	54.00	58.00	74.00
3 x 15	9.75	11.50	14.00	16x29 1/2	54.00	58.00	74.00
3 1/2 x 15	9.75	11.50	14.00	18x29 1/2	60.00	65.00	82.00
4 x 15	9.75	11.50	14.00	16x31 1/2	60.00	65.00	82.00
5 x 15	9.75	11.50	14.00	18x31 1/2	60.00	65.00	82.00
6 x 15	9.75	11.50	14.00	20x31 1/2	75.00	81.00	100.00
7 x 15	9.75	11.50	14.00	18x34	75.00	81.00	100.00
4 x 16	12.40	14.10	18.10	20x34	75.00	81.00	100.00

Extra Heavy Reducing Companion Flanges are the same thickness and are drilled to same template as our regular Extra Heavy Companion Flanges of corresponding outside diameter.

When ordering Reducing Companion Flanges be particular to give both the pipe size and outside diameter.

NOTE.—Flanges will always be furnished faced only, unless otherwise ordered.

EXTRA HEAVY AND MEDIUM TEMPLETS FOR DRILLING.

WORKING PRESSURES UP TO 250 POUNDS.

Adopted by Manufacturers', Steam Fitters' Association and
American Society Engineers.

Size	Outside Diameter	Bolt Circle	Number of Bolts	Size of Bolts	Length of Bolts
2	6½	5	4	⅝	2½
2½	7½	5½	4	⅝	3
3	8½	6½	8	⅝	3
3½	9	7¼	8	⅝	3¼
4	10	7½	8	⅝	3½
4½	10½	8¼	8	⅝	3½
5	11	9¼	8	⅝	3½
6	12½	10½	12	⅝	3½
7	14	11½	12	⅝	4
8	15	13	12	⅝	4¼
9	16	14	12	⅝	4¼
10	17½	15¼	16	⅝	4¼
12	20	17¼	16	⅝	5
14	22½	20	20	⅝	5¼
15	23½	21	20	1	5¼
16	25	22½	20	1	5¼
18	27	24¼	24	1	6
20	29½	26¼	24	1½	6½
24	34	31¼	28	1½	7



CORRUGATED COPPER GASKETS.

For Circular, Elliptical and Rectangular Shapes, see below.



PLATE A

1 in.	.004	6 in.	.57	18 in.	5.09	30 in.	14.14
9-16 in.	.005	6 1/2 in.	.61	18 1/2 in.	5.23	30 1/2 in.	14.37
11-16 in.	.006	6 3/4 in.	.66	18 3/4 in.	5.38	30 3/4 in.	14.61
13-16 in.	.007	6 7/8 in.	.72	19 in.	5.52	31 in.	14.85
15-16 in.	.009	7 in.	.77	19 1/2 in.	5.67	31 1/2 in.	15.10
1 in.	.01	7 1/8 in.	.83	19 3/4 in.	5.82	31 3/4 in.	15.34
1 1/8 in.	.012	7 1/2 in.	.88	19 1/2 in.	5.97	31 1/2 in.	15.59
1 1/4 in.	.014	7 3/4 in.	.94	19 3/4 in.	6.13	31 3/4 in.	15.83
1 1/2 in.	.016	8 in.	1.01	20 in.	6.28	32 in.	16.08
1 3/4 in.	.02	8 1/8 in.	1.07	20 1/2 in.	6.44	32 1/2 in.	16.34
1 7/8 in.	.025	8 1/2 in.	1.13	20 3/4 in.	6.60	32 3/4 in.	16.59
2 in.	.03	8 3/4 in.	1.20	21 in.	6.76	33 in.	16.85
2 1/8 in.	.035	9 in.	1.27	21 1/2 in.	6.93	33 1/2 in.	17.11
2 1/4 in.	.04	9 1/8 in.	1.34	21 3/4 in.	7.09	33 3/4 in.	17.37
2 3/8 in.	.05	9 1/2 in.	1.42	21 1/2 in.	7.26	33 1/2 in.	17.63
2 1/2 in.	.055	9 3/4 in.	1.49	21 3/4 in.	7.43	33 3/4 in.	17.89
2 7/8 in.	.06	10 in.	1.57	22 in.	7.60	34 in.	18.16
3 in.	.07	10 1/8 in.	1.65	22 1/2 in.	7.78	34 1/2 in.	18.43
3 1/8 in.	.08	10 1/2 in.	1.73	22 3/4 in.	7.95	34 3/4 in.	18.70
3 1/4 in.	.09	10 3/4 in.	1.82	23 in.	8.13	34 1/2 in.	18.97
3 3/8 in.	.10	11 in.	1.90	23 1/2 in.	8.31	35 in.	19.24
3 1/2 in.	.11	11 1/8 in.	1.99	23 3/4 in.	8.49	35 1/2 in.	19.52
3 3/4 in.	.12	11 1/2 in.	2.08	23 1/2 in.	8.67	35 1/2 in.	19.80
3 7/8 in.	.13	11 3/4 in.	2.17	23 3/4 in.	8.86	35 3/4 in.	20.08
4 in.	.14	12 in.	2.26	24 in.	9.05	36 in.	20.36
4 1/8 in.	.15	12 1/8 in.	2.36	24 1/2 in.	9.24	36 1/2 in.	20.64
4 1/4 in.	.17	12 1/2 in.	2.45	24 3/4 in.	9.43	36 3/4 in.	20.93
4 3/8 in.	.18	12 3/4 in.	2.55	24 1/2 in.	9.62	36 1/2 in.	21.21
4 1/2 in.	.19	13 in.	2.65	25 in.	9.82	37 in.	21.50
4 3/4 in.	.21	13 1/8 in.	2.76	25 1/2 in.	10.01	37 1/2 in.	21.80
4 7/8 in.	.22	13 1/2 in.	2.86	25 3/4 in.	10.21	37 3/4 in.	22.09
5 in.	.24	13 3/4 in.	2.97	25 1/2 in.	10.42	37 1/2 in.	22.38
5 1/8 in.	.25	14 in.	3.08	26 in.	10.62	38 in.	22.68
5 1/4 in.	.27	14 1/8 in.	3.19	26 1/2 in.	10.82	38 1/2 in.	22.98
5 3/8 in.	.28	14 1/2 in.	3.30	26 3/4 in.	11.03	38 3/4 in.	23.28
5 1/2 in.	.30	14 3/4 in.	3.42	26 1/2 in.	11.24	38 1/2 in.	23.59
5 3/4 in.	.32	15 in.	3.53	27 in.	11.45	39 in.	23.89
5 7/8 in.	.34	15 1/8 in.	3.65	27 1/2 in.	11.66	39 1/2 in.	24.20
6 in.	.35	15 1/2 in.	3.77	27 3/4 in.	11.88	39 3/4 in.	24.51
6 1/8 in.	.37	15 3/4 in.	3.90	27 1/2 in.	12.10	39 1/2 in.	24.82
6 1/4 in.	.39	16 in.	4.02	28 in.	12.32	40 in.	25.13
6 3/8 in.	.41	16 1/8 in.	4.15	28 1/2 in.	12.54	40 1/2 in.	25.45
6 1/2 in.	.43	16 1/2 in.	4.28	28 3/4 in.	12.76	40 3/4 in.	25.77
6 3/4 in.	.45	16 3/4 in.	4.41	28 1/2 in.	12.98	40 1/2 in.	26.08
6 7/8 in.	.48	17 in.	4.54	29 in.	13.21	41 in.	26.41
7 in.	.50	17 1/8 in.	4.67	29 1/2 in.	13.44	41 1/2 in.	26.73
7 1/8 in.	.52	17 1/2 in.	4.81	29 3/4 in.	13.67	41 3/4 in.	27.05
7 1/4 in.	.54	17 3/4 in.	4.95	29 1/2 in.	13.90	41 1/2 in.	27.38

The prices given above are for Solid Gaskets on basis two cents per square inch surface.

The difference between price of outside and inside diameters will be the price of required Gasket.

Example for Gasket 10 x 5 inch, i.e.: 10 inch solid Gasket cost 1.57; inch solid Gasket cost 39 cents—difference 1.18 for one 10 x 5 inch Gasket.

This Metallic Gasket may be used in place of rubber or other destructible materials in general use for packing. It consists of thin sheet copper, stamped with concentric corrugations. Three to six corrugations are all that are necessary, so that the space within the bolt holes usually determines the width of the Gasket. In cases where the flanges are thin, and for this reason liable to bend when the bolts are tightened, it is advisable to extend the copper Gasket to the full width of flange. This will, of course, require the cutting of bolt holes in the Gasket.

Connections made with these Gaskets will not blow out after continued use, for each corrugation makes the entire circle of the flange, and so long as the contact is kept complete by compression the joints cannot leak. The Gasket never blows out like rubber. It may be put in place while steam is leaking through valve. Answers well on pipes in which steam is alternately on and off, for it is not impaired by the repeated expansion and contraction.

MACHINE BOLTS.

MANUFACTURERS' STANDARD.

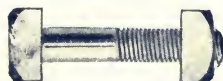


PLATE A

Length	DIAMETER OF BOLTS								
	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	
2	2.56	3.00	3.86	5.58	7.70	11.20	16.00	23.70	31.50
2½	2.72	3.20	4.12	5.96	8.20	11.90	16.90	24.90	33.00
3	2.88	3.40	4.38	6.34	8.70	12.60	17.80	26.10	34.50
3½	3.04	3.60	4.64	6.72	9.20	13.30	18.70	27.30	36.00
4	3.20	3.80	4.90	7.10	9.70	14.00	19.60	28.50	37.50
4½	3.36	4.00	5.16	7.48	10.20	14.70	20.50	29.70	39.00
5	3.52	4.20	5.42	7.86	10.70	15.40	21.40	30.90	40.50
5½	3.68	4.40	5.68	8.24	11.20	16.10	22.30	32.10	42.00
6	3.84	4.60	5.94	8.62	11.70	16.80	23.20	33.30	43.50
6½	4.00	4.80	6.20	9.00	12.20	17.50	24.10	34.50	45.00
7	4.16	5.00	6.46	9.38	12.70	18.20	25.00	35.70	46.50
7½	4.32	5.20	6.72	9.76	13.20	18.90	25.90	36.90	48.00
8	4.48	5.40	6.98	10.14	13.70	19.60	26.80	38.10	49.50
9	4.80	5.80	7.50	10.90	14.70	21.00	28.60	40.50	52.50
10	5.12	6.20	8.02	11.66	15.70	22.40	30.40	42.90	55.50
11	5.44	6.60	8.54	12.42	16.70	23.80	32.20	45.30	58.50
12	5.76	7.00	9.06	13.18	17.70	25.20	34.00	47.70	61.50
13	6.08	7.40	9.58	13.94	18.70	26.60	35.80	50.10	64.50
14	6.40	7.80	10.10	14.70	19.70	28.00	37.60	52.50	67.50
15	6.72	8.20	10.62	15.46	20.70	29.40	39.40	54.90	70.50

We always furnish bolts with square heads and hexagon nuts unless otherwise specified.

Bolts with either hexagon heads or nuts add 10% to net.

Bolts with both hexagon heads and nuts add 20% to net.

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
90° ELBOW



PLATE B
60° ELBOW

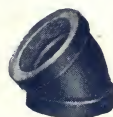


PLATE C
45° ELBOW



PLATE D
22 1/2° ELBOW



PLATE E
11 1/4° ELBOW

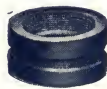


PLATE F
5 5/8° ELBOW



PLATE G
90° LONG TURN
ELBOW



PLATE H
45° LONG TURN
ELBOW

BLACK

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	10	12
90° Elbow.....Ea.	.30	.38	.57	1.20	1.45	2.30	4.25	6.25	11.50	15.00	31.00	47.50
60° Elbow.....Ea.	..	.38	.57	1.20	1.45	2.30	4.25	6.25	11.50	15.00	31.00	..
45° Elbow.....Ea.	.30	.38	.57	1.20	1.45	2.30	4.25	6.25	11.50	15.00	31.00	..
22 1/2° Elbow.....Ea.	..	.38	.57	1.20	1.45	2.30	4.25	6.25	11.50	15.00	31.00	..
11 1/4° Elbow.....Ea.	..	.38	.57	1.20	1.45	2.30	4.25	6.25	11.50	15.00	31.00	..
5 5/8° Elbow.....Ea.	..	.38	.57	..	1.45	2.30	4.25	6.25	11.50	15.00	31.00	..
90° L'g T'n Elb. Ea.	.35	.42	.65	1.40	1.75	2.75	5.25	7.50	13.50	19.00	38.00	57.50
45° L'g T'n Elb. Ea.	..	.42	.65	1.40	1.75	2.75	5.25	7.50	13.50	19.00	38.00	..

GALVANIZED

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	10	12
90° Elbow...Ea.	.52	.67	1.00	2.10	2.55	4.00	7.40	11.00	20.00	26.25	54.00	83.00
60° Elbow...Ea.	..	.67	1.00	2.10	2.55	4.00	7.40	11.00	20.00	26.25	54.00	..
45° Elbow...Ea.	.52	.67	1.00	2.10	2.55	4.00	7.40	11.00	20.00	26.25	54.00	..
22 1/2° Elbow Ea.	..	.67	1.00	2.10	2.55	4.00	7.40	11.00	20.00	26.25	54.00	..
11 1/4° Elbow Ea.	..	.67	1.00	2.10	2.55	4.00	7.40	11.00	20.00	26.25	54.00	..
5 5/8° Elbow Ea.	..	.67	1.00	..	2.55	4.00	7.40	11.00	20.00	26.25	54.00	..
90° L. T. Elb. Ea.	.60	.72	1.15	2.45	3.10	4.80	9.20	13.15	23.50	33.25	66.50	100.00
45° L. T. Elb. Ea.	..	.72	1.15	2.45	3.10	4.80	9.20	13.15	23.50	33.25	66.50	..

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
90° ELBOW, WITH
SIDE OUTLET



PLATE B
90° ELBOW, WITH
HEEL OUTLET



PLATE C
3-WAY ELBOW



PLATE D
REDUCING CLOSET ELBOW



PLATE E
CLOSET FLANGE, IRON

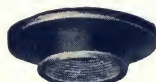


PLATE F
CLOSET FLANGE, BRASS

BLACK

Size.....Inches	1 1/2	2	3	4	5	6
90° Elbow with Side Outlet.....Each	3.85	.....	.....
90° Elbow with Heel Outlet.....Each	3.85	.....	.....
Three-Way Elbow.....Each	5.00	7.50	13.50
Reducing Three-Way Elbow.....Each	.85	1.10	3.00	5.50	8.25	15.00
Closet Elbows.....Each	4.25	.....	.....
Reducing Closet Elbows.....Each	4.25	.....
Partition Crosses, Reducing.....Each	1.25	.....	.....	.....	.....	.....
Closet Flanges.....Each	1.35	.....	.....
Brass Closet Flanges.....Each	7.00	.....	.....
Cast Iron Closet Flanges with Recess for Asbestos Ring Packing.....Each	1.35	.....	.....

GALVANIZED

Size.....Inches	1 1/2	2	3	4	5	6
90° Elbow with Side Outlet.....Each	.....	.....	.....	6.75	.....	.....
90° Elbow with Heel Outlet.....Each	.....	.....	.....	6.75	.....	.....
Three-Way Elbow.....Each	1.50	1.95	5.25	8.75	13.15	23.50
Reducing Three-Way Elbow.....Each	.....	.....	.....	9.65	14.50	26.25
Closet Elbow.....Each	.....	.....	.....	7.40	.....	.....
Reducing Closet Elbows.....Each	.....	.....	.....	.....	7.40	.....
Partition Crosses, Reducing.....Each	2.20	.....	.....	.....	.....	.....
Closet Flanges.....Each	.....	.....	.....	2.35	.....	.....
Cast Iron Closet Flanges with Recess for Asbestos Ring Packing.....Each	.....	.....	.....	2.35	.....	.....

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
90° Y BRANCH
TEE PATTERN



PLATE B
DOUBLE 90° Y BRANCH
TEE PATTERN
(CROSS)

BLACK

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4
90° Y Branches, Tee Pattern.....Each	.45	.57	.85	1.80	2.20	3.50
Reducing 90° Y Branches, Tee Pattern.....Each	.....	.63	.95	2.00	2.40	3.85
90° Long Turn Y Branches, Tee Pattern.....Each	.57	.70	1.10	2.40	3.35	6.00
Reducing 90° Long Turn Y Branches, Tee Pat.Each	.....	.80	1.20	2.65	3.75	6.60
Double 90° Y Branches, Tee Pattern.....Each	.70	.85	1.30	2.85	3.40	5.25
Double Reducing 90° Y Branches, Tee Pat.Each	.....	.....	1.50	3.15	3.75	5.75
Double 90° Long Turn Y Branches, Tee Pat.Each	.....	1.10	1.75	3.60	5.00	9.00
Doub. Red'g 90° Long Turn Y Br., Tee Pat. Each	.....	.....	1.90	.....	5.50	10.00
Size.....Inches	5	6	7	8	10	
90° Y Branches, Tee Pattern.....Each	6.50	9.50	17.50	23.00	47.00	
Reducing 90° Y Branches, Tee Pattern.....Each	7.15	10.50	19.00	25.50	.....
90° Long Turn Y Branches, Tee Pattern.....Each	9.50	20.00	30.00	40.00	.....
Reducing 90° Long Turn Y Branches, Tee Pat.Each	10.50	22.00	33.00	44.00	.....
Double 90° Y Branches, Tee Pattern.....Each	9.50	14.00	.....	.....	.....
Double Reducing 90° Y Branches, Tee Pattern.Each	10.50	15.50	.....	.....	.....
Double 90° Long Turn Y Branches, Tee Pat.Each	14.00	30.00	45.00	60.00	.....
Doub. Red'g 90° Long Turn Y Br., Tee Pat. Each	15.50	33.00	.....	.....	.....

GALVANIZED

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4
90° Y Branches, Tee Pattern.....Each	.80	1.00	1.50	3.15	3.85	6.15
Reducing 90° Y Branches, Tee Pattern.....Each	.....	1.10	1.65	3.50	4.20	6.75
90° Long Turn Y Branches, Tee Pattern.....Each	1.00	1.22	1.95	4.20	5.85	10.50
Reducing 90° Long Turn Y Branches, Tee Pat.Each	.....	1.40	2.10	4.65	6.55	11.55
Double 90° Y Branches, Tee Pattern.....Each	1.22	1.50	2.30	5.00	5.95	9.20
Double Reducing 90° Y Branches, Tee Pattern.Each	.....	.....	2.60	5.50	6.55	10.00
Double 90° Long Turn Y Branches, Tee Pat.Each	.....	1.95	3.10	6.30	8.75	15.75
Doub. Red'g 90° Long Turn Y Br., Tee Pat. Each	.....	.....	3.35	.....	9.65	17.50
Size.....Inches	5	6	7	8	10	
90° Y Branches, Tee Pattern.....Each	11.35	16.50	30.50	40.00	82.00	
Reducing 90° Y Branches, Tee Pattern.....Each	12.50	18.50	33.25	44.50	.....
90° Long Turn Y Branches, Tee Pattern.....Each	16.50	35.00	52.50	70.00	.....
Reducing 90° Long Turn Y Branches, Tee Pat.Each	18.50	38.50	58.00	77.00	.....
Double 90° Y Branches, Tee Pattern.....Each	16.50	24.50	.....	.....	.....
Double Reducing 90° Y Branches, Tee Pattern.Each	18.50	27.00	.....	.....	.....
Double 90° Long Turn Y Branches, Tee Pat.Each	24.50	52.50	79.00	105.00	.....
Doub. Red'g 90° Long Turn Y Br., Tee Pat. Each	27.00	58.00	.....	.....	.....

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
TEE



PLATE B
BASIN TEE



PLATE C
BASIN CROSS

BLACK

Size.....Inches	1½	2	3	4	5	6	7	8	10
Tees.....Each	.55	.80	2.00	3.25	6.00	8.75	16.00	21.00	43.00
Reducing Tees.....Each	.90	2.20	3.60	6.60					
Basin Tees.....Each	.70	1.10							
Reducing Basin Tees.....Each	1.20								
Basin Crosses.....Each	1.75								
Reducing Basin Crosses.....Each	1.95								

GALVANIZED

Size.....Inches	1½	2	3	4	5	6	7	8	10
Tees.....Each	1.00	1.40	3.50	5.70	10.50	15.25	28.00	37.00	75.00
Reducing Tees.....Each	1.60	3.85	6.30	11.55					
Basin Tees.....Each	1.22	1.95							
Reducing Basin Tees.....Each	2.10								
Basin Crosses.....Each	3.10								
Reducing Basin Crosses.....Each	3.40								

TUCKER CONNECTIONS



PLATE D

Size.....Inches	2	2½	3	4	6	8	10
Black.....	.80	1.50	2.00	3.25	8.75	21.00	43.00
Galvanized.....	1.40	2.45	3.50	5.70	15.25	37.00	75.00

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
45° Y BRANCH



PLATE B
45° DOUBLE Y BRANCH



PLATE C
INCREASER



PLATE D
ROOF CONNECTION



PLATE E
BRASS SOLDERING
NIPPLE

BLACK

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	10
45° Y Branches...Ea.	.52	.65	.95	2.10	2.65	3.85	7.10	10.50	19.00	25.00	52.00
Reducing 45° Y Branches...Each	....	.72	1.05	2.30	2.90	4.25	7.80	11.50	21.00	27.50	.....
45° Double Y Branches...Each	.90	1.00	1.45	3.25	4.00	5.75	10.75	16.00	28.50	38.00	78.00
Reduc'g 45° Double Y Branches...Each	....	....	1.60	3.60	4.40	6.35	11.75	17.50	.....	.....	.....
Reducing 60° Y Branches...Each	....	.72	1.05	2.30	2.90	4.25	7.80	11.50	21.00	27.50	.....
Increasers...Each	....	....	....	....	2.50	3.75	5.50	6.50	.....	15.00	.....
Roof Connect'ns Ea	....	....	1.15	....	1.20	1.50	2.00	4.25	....	.....	.....
Brass Soldering Nipples...Each	.90	1.05	1.50	....	2.75	4.00	9.00	.....	.....	.....	.....

GALVANIZED

Size.....Inches	1 1/4	1 1/2	2	2 1/2	3	4	5	6	7	8	10
45° Y Branches...Ea.	.90	1.15	1.65	3.70	4.65	6.75	12.50	18.50	33.25	44.00	91.00
Reducing 45° Y Branches...Each	....	1.25	1.85	4.00	5.10	7.40	13.65	20.00	37.00	48.00	.....
45° Double Y Branches...Each	1.60	1.75	2.55	5.70	7.00	10.00	18.80	28.00	50.00	66.50	137.00
Reduc'g 45° Double Y Branches...Each	....	....	2.80	6.30	7.70	11.00	20.50	30.50	.....	.....	.....
Reducing 60° Y Branches...Each	....	1.25	1.85	4.00	5.10	7.40	13.65	20.00	37.00	48.00	.....
Increasers...Each	....	....	....	....	4.40	6.55	9.65	11.35	.....	26.25	.....
Roof Connect'ns Ea	....	....	2.00	....	2.10	2.60	3.50	7.40	.....	.....	.....

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE



PLATE A
S TRAP



PLATE B
HALF S TRAP



PLATE
RUNNING TRAP



PLATE D
OFFSET

BLACK

Size.....Inches	1½	2	3	4	5	6	7	8	10
S Traps.....Each	...	4.00	9.25	14.00	21.00	36.00	45.00	60.00	.....
Half S Traps.....Each	1.70	2.20	5.00	10.00	21.50	32.50	40.00	55.00	.....
Running Traps.....Each	2.70	3.30	5.50	9.75	24.50	33.50	50.00	65.00	115.00
OFFSETS:									
To Offset 4 inches. Each	...	2.15	3.35	5.00	.....	.....	.....	.....	.....
To Offset 6 inches. Each	...	2.40	4.00	5.75	9.00	12.50	.....	.....	.....
To Offset 8 inches. Each	...	2.60	4.75	6.50	10.00	13.50	.....	.....	.....
To Offset 10 inches. Each	...	2.85	5.50	7.50	11.00	14.50	.....	.....	.....
To Offset 12 inches. Each	...	.....	.....	8.50	12.00	15.50	.....	.....	.....

GALVANIZED

Size.....Inches	1½	2	3	4	5	6	7	8	10
S Traps.....Each	...	7.00	16.00	24.00	37.00	63.00	78.00	105.00	.....
Half S Traps.....Each	3.00	3.85	8.75	17.50	37.50	57.00	70.00	95.00	.....
Running Traps.....Each	4.70	5.75	9.50	17.00	43.00	58.50	87.50	115.00	200.00
OFFSETS:									
To Offset 4 inches. Each	...	3.75	5.85	8.75	.....	.....	.....	.....	.....
To Offset 6 inches. Each	...	4.20	7.00	10.00	15.75	22.00	.....	.....	.....
To Offset 8 inches. Each	...	4.55	8.30	11.35	17.50	23.50	.....	.....	.....
To Offset 10 inches. Each	...	5.00	9.65	13.15	19.25	25.50	.....	.....	.....
To Offset 12 inches. Each	...	.....	.....	15.00	21.00	27.00	.....	.....	.....

CAST IRON DRAINAGE FITTINGS

SCREWED FOR IRON PIPE

LONG TURN 90° Y BRANCHES, WITH AUXILIARY INLETS



PLATE A
CLOSET TEE, WITH INLETS ON
BOTH SIDES



PLATE B
CLOSET TEE, WITH INLETS ON
BOTH SIDES AND TOP

BLACK

Size.....Inches	3	4	5 x 4	6 x 4
With One Inlet on Side.....Each	5.25	9.00	12.00	23.00
With Two Inlets on Side.....Each	5.75	10.00	13.00	25.00
With One Inlet on Side and One on Top...Each	5.75	10.00	13.00	25.00
With Two Inlets on Side and One on Top...Each	6.50	11.00	14.50	28.00

GALVANIZED

Size.....Inches	3	4	5 x 4	6 x 4
With One Inlet on Side.....Each	9.20	15.75	21.00	40.00
With Two Inlets on Side.....Each	10.00	17.50	22.75	44.00
With One Inlet on Side and One on Top...Each	10.00	17.50	22.75	44.00
With Two Inlets on Side and One on Top...Each	11.35	19.25	25.50	49.00

MALLEABLE IRON FITTINGS.



PLATE A
ELBOW.



PLATE B
ELBOW, BEAD.

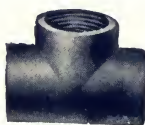


PLATE C
TEE.



PLATE D
TEE, BEAD.



PLATE E
CROSS.



PLATE F
CROSS, BEAD.



PLATE G
RETURN BEND.



PLATE H
DROP ELBOW, FEMALE.



PLATE I
DROP TEE, FEMALE.



PLATE J
STREET ELBOW.



PLATE K
RIGHT HAND COUPLING.



PLATE L
RIGHT AND LEFT HAND COUPLING.

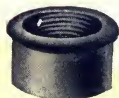


PLATE M
CAP



PLATE N
PLUG.



PLATE O
LOCK NUT.



PLATE P
BUSHING.



REVISED CLASSIFICATION AND PRICE LIST

JUNE 5, 1907

MALLEABLE IRON FITTINGS

FOR STEAM, GAS AND WATER

CLASS	A	B	C
Price, per Pound, Black.....	.40	.20	.12
Price, per Pound, Galvanized..	.50	.28	.19
Elbows.....	$\frac{1}{8} \times \frac{1}{8}$ $\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2}$ $\frac{3}{8} \times \frac{3}{8}$ $\frac{1}{2} \times \frac{1}{4}$ & $\frac{1}{2} \times \frac{3}{8}$	* $\frac{3}{4}$ and larger
Elbows, Right and Left.....	$\frac{1}{4}$ and $\frac{3}{8}$	$\frac{1}{2}$, $\frac{3}{4}$ and 1	* $1 \frac{1}{4}$ and larger
Elbows, 45°.....		$\frac{1}{4}$ to 2 inclusive	2 $\frac{1}{2}$ and larger
Elbows, Street.....		$\frac{1}{4}$ and $\frac{3}{8}$ $\frac{1}{2}$ and $\frac{3}{4}$ $\frac{3}{4} \times \frac{1}{2}$ and $1 \times \frac{3}{4}$	1 and larger
Elbows, Side Outlet.....		All Sizes	
Elbows, Drop.....		All Sizes Reducing and Straight	
Tees.....	$\frac{1}{8} \times \frac{1}{8}$ $\frac{1}{8} \times \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{3}{8}$ $\frac{1}{4} \times \frac{3}{8}$ $\frac{3}{8} \times \frac{1}{4}$ $\frac{1}{2}$ and $\frac{1}{2}$ Reducing $\frac{3}{8} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{1}{4} \times \frac{3}{8}$	* $\frac{3}{4}$ and larger
Tees, Street.....		$\frac{3}{4}$ and $1 \times \frac{3}{4} \times 1$	1 and larger
Tees, Four-Way.....		All Sizes	
Tees, Drop.....		All Sizes Straight and Reducing	
Straight Crosses.....		$\frac{1}{4}$ to 1 inclusive	1 $\frac{1}{4}$ and larger
Reducing Crosses.....		1 and smaller	* $1 \frac{1}{4}$ and larger
Y Bends.....		All Sizes	
Return Bends.....	$\frac{1}{4}$	$\frac{3}{8}$ to 1 inclusive	1 $\frac{1}{4}$ and larger
Return Bends, Right and Left	$\frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$ and larger	
Couplings, Right Hand.....	$\frac{1}{8}$	$\frac{1}{2}$ to $\frac{3}{4}$ inclusive	1 and larger
Couplings, Right and Left.....	$\frac{1}{8}$	$\frac{1}{4}$ to $\frac{3}{4}$ inclusive	1 and larger
Couplings, Reducing.....	$\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$ to $1 \times \frac{3}{4}$ inclusive	* $1 \frac{1}{4}$ and larger
Caps.....	$\frac{1}{8}$	$\frac{1}{4}$ to 1 inclusive	1 $\frac{1}{4}$ and larger
Locknuts.....	$\frac{1}{8}$	$\frac{1}{4}$ to $1 \frac{1}{4}$ inclusive	1 $\frac{1}{2}$ and larger
Extension Pieces.....		All Sizes	
Waste Nuts.....		All Sizes	
Chandelier Hooks.....		All Sizes	
Wall Plates.....		All Sizes	
Pump Rod Couplings.....	$\frac{3}{8}$, $\frac{3}{8} \times \frac{7}{16}$, $\frac{7}{16}$	$\frac{1}{2}$ and $\frac{3}{4}$	

* Fittings in Class C having one or more outlets smaller than $\frac{3}{4}$ will be charged in Class B.

Orders for less than 25 pounds of Black Fittings in Classes B and C will be charged at a uniform price of 20 cents net per pound, and in Class A at 40 cents net per pound.

Above prices on Galvanized Fittings are for Standard Sizes.

Other sizes will be made to order at a special price, according to quantity ordered.

The run of Tees (Bullheads), gives the size for the purpose of classification, and the outlet being large, does not change it.

IN ORDERING BE PARTICULAR TO MENTION BEADED OR GAS.

A. B. C. MALLEABLE IRON HANGERS



PLATE A



PLATE B



PLATE C

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Plate A.....	.22	.23	.24	.26	.30	.35	.42	.52	.62
Plate B.....	.22	.23	.24	.26	.30	.35	.42	.52	.62
Plate C.....	.25	.26	.27	.30	.35	.40	.47	.57	.67

Standard Rods included in above prices.

HANGER ROLLS



PLATE D

Size, for Pipe.....	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Length, End to End.....Inches	3	3	3	$3\frac{1}{4}$	$4\frac{3}{4}$	$4\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$
Roll Only.....Each	.06	.07	.08	.13	.15	.18	.21	.21
Size, for Pipe.....	$4\frac{1}{2}$	5	6	7	8	10	12	14
Length, End to End.....Inches	6	6	$7\frac{3}{4}$	8	9	$11\frac{1}{2}$	14	$17\frac{1}{2}$
Roll Only.....Each	.24	.24	.27	.36	.44	.72	1.05	1.32

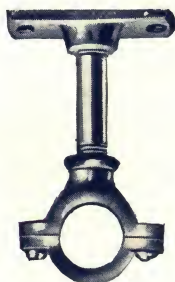


PLATE A

SPLIT RING EXTENSION PIPE HANGER



PLATE B

SOLID RING EXTENSION PIPE HANGER

PIPE HANGERS

SPLIT RING EXTENSION PIPE HANGERS

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	5	6	7	8
Tapped for.....	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1
Plain Iron, complete	.22	.22	.27	.32	.35	.40	.50	.70	.90	1.10	1.40	1.90	2.50	3.00
Galv. Iron, complete	.25	.25	.30	.35	.40	.50	.60	.80	1.00	1.25	1.75	2.25	3.00	3.50

SOLID RING EXTENSION PIPE HANGERS

Size.....Inches	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8
Tapped for.....	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Plain, less Nipples..	.17	.18	.19	.25	.29	.36	.44	.55	.63	.90	1.12	1.35	1.80	2.25
Galv., less Nipples..	.25	.25	.28	.35	.45	.55	.65	.80	.95	1.35	1.65	2.00	2.75	3.50



PLATE C

MALLEABLE IRON PIPE HANGER



PLATE D

SOLID RING PIPE HANGER

MALLEABLE IRON PIPE HANGERS

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	5	6	7	8
Tapped for.....	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1
Plain Iron.....Each	.15	.15	.18	.22	.27	.35	.40	.45	.50	.65	1.00	1.50	2.00	2.50
Galv. Iron.....Each	.17	.17	.20	.25	.30	.40	.50	.60	.65	.80	1.50	2.00	2.50	3.00

SOLID RING PIPE HANGERS

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Plain Iron.....Per 100	5.00	5.00	5.80	7.75	10.00	14.00	22.00
Galvanized Iron.....Per 100	6.50	6.50	7.00	9.00	12.00	16.00	25.00

MALLEABLE IRON RAILING FITTINGS,
FOR FENCES, ENCLOSING ENGINES AND MACHINERY
EXHIBITION SPACES, ETC.



PLATE A
ELBOW



PLATE B
ELBOW, SIDE OUTLET



PLATE C
TEE



PLATE D
TEE, SIDE OUTLET



PLATE E
CROSS



PLATE F
CROSS, SIDE OUTLET

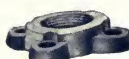


PLATE G
FLOOR FLANGE



PLATE H
BUSHING



PLATE I. ACORN
ORNAMENT

Size.....	Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Elbow.....		.15	.18	.20	.35	.45	.72	1.60	2.25
Elbow, Side Outlet.....		.20	.23	.25	.40	.50	.80	1.75	2.50
Tee.....		.20	.23	.25	.40	.50	.75	1.75	2.50
Tee, Side Outlet.....		.30	.33	.35	.45	.55	.90	1.90	2.60
Cross.....		.30	.33	.35	.45	.58	1.00	1.80	2.60
Cross, Side Outlet.....		.35	.38	.40	.50	.65	1.35	2.00	2.75
Floor Flange.....		.14	.15	.15	.20	.28	.30	.....	.....
Acorn Ornament.....		.16	.18	.20	.25	.35	.90	.....	.....
Bushings, red'd one and two sizes.....	06	.07	.10	.12	.18	.....	.....

GALVANIZED, DOUBLE LIST

LIST OF REDUCING SIZES OF RAILING FITTINGS

[illegible]



RAILING FITTINGS

PLATE A
No. 1PLATE B
No. 2PLATE C
No. 3PLATE D
No. 4PLATE E
No. 5PLATE F
No. 6PLATE G
No. 7PLATE H
No. 8PLATE I
No. 9PLATE J
No. 10PLATE K
No. 11PLATE L
No. 12PLATE M
No. 13PLATE N
No. 14PLATE O
No. 15PLATE P
No. 16

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
1 Stair Rail Tees, Adj.....	.45	.65	1.00	1.15	.....	.....	.....	.....
2 Stair Rail Crosses, Adj.....	.65	.80	1.20	1.35	.....	.....	.....	.....
3 Hand Rail Ends, drive into pipe.....	.....	.....	.40	.50	.75	.....	.....	.....
4 Rosette Plates.....	.....	.18	.20	.30	.40	.....	.....	.....
5 Plain Ceiling or Wall Plates.....	.11	.13	.16	.18	.23	.27	.36	.50
6 Loafer Cushions, 18 in. long.....	.....	.30	.30	.30	.30	.....	.....	.....
7 Scroll Ornaments, drilled for screws.....	.....	.....	.....	.....	.....	.....	.....	.50
8 Gate Centre Pieces (only).....	.....	.....	1.00	1.50	.....	.....	.....	.....
9 Self-Closing Gate Latches.....	.....	.70	.80	.90	1.00	.....	.....	.....
10 Plug Hinges.....	.35	.40	.45	.55	.80	1.00	.....	.....
11 Foot Rail Brackets, Black.....	.70	.80	1.00	1.10	1.30	1.50	.....	.....
12 Foot Rail Brackets, Black.....	.60	.70	.90	1.00	1.20	1.40	.....	.....
13 Foot Rail Brackets, Black.....	.....	.....	.11	.....	.....	.....	.....	.....
14 Foot Rail Brackets, Black.....	.....	.....	.12	.....	.....	.....	.....	.....
15 End for Foot Rail, drives into pipe.....	.15	.15	.20	.25	.30	.40	.....	.....
16 Stair Rail Ends, drive into fitting.....	.....	.....	.80	1.00	1.75	2.00	.....	.....

GALVANIZED, DOUBLE LIST

RAILING FLANGES, DRILLED



PLATE A
CAST IRON

Pipe Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Diameter, $2\frac{1}{2}$ Inches.....	.14	.14	.15	.18	.20	.23	.28	.31
Diameter, 3 Inches.....	.14	.14	.15	.18	.20	.23	.28	.31
Diameter, $3\frac{1}{2}$ Inches.....		.17	.17	.18	.20	.23	.28	.31
Diameter, 4 Inches.....			.20	.21	.22	.25	.28	.31
Diameter, $4\frac{1}{2}$ Inches.....			.26	.28	.28	.30	.31	.36
Diameter, 5 Inches.....				.31	.33	.33	.35	.45
Diameter, $5\frac{1}{2}$ Inches.....					.42	.42	.42	.45
Diameter, 6 Inches.....					.52	.52	.52	.55
Diameter, $6\frac{1}{2}$ Inches.....						.62	.62	.65

BRASS

Size.....Inches	$\frac{1}{2} \times 3$	$\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2} \times 4$	$\frac{3}{4} \times 3$	$\frac{3}{4} \times 3\frac{1}{2}$
Price.....	1.40	1.50	1.80	1.40	1.50
Size.....Inches	$\frac{3}{4} \times 4$	$\frac{3}{4} \times 5$	1×3	$1 \times 3\frac{1}{2}$	1×4
Price.....	1.75	2.35	1.40	1.60	2.00
Size.....Inches	1×5	$1\frac{1}{4} \times 4$	$1\frac{1}{4} \times 4\frac{1}{2}$	$1\frac{1}{4} \times 5$	$1\frac{1}{4} \times 6$
Price.....	2.50	2.00	2.40	2.70	3.10
Size.....Inches	$1\frac{1}{2} \times 4$	$1\frac{1}{2} \times 5$	$1\frac{1}{2} \times 6$	2×5	2×6
Price.....	2.25	2.80	3.60	3.30	4.20

ADJUSTABLE RAILING FITTINGS

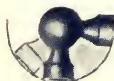


PLATE B



PLATE C

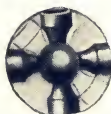


PLATE D



PLATE E



PLATE F

IRON

Size.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Plate B.....	1.10	1.25	1.70	2.25
Plate C.....	1.30	1.50	2.00	2.50
Plate D.....	1.50	1.75	2.35	2.75
Plate E.....	1.30	1.60	2.15	2.50
Plate F.....	1.50	1.85	2.50	2.75

GALVANIZED, DOUBLE LIST



BRASS RAILING FITTINGS, FINISHED FOR FENCES ENCLOSING ENGINES AND MACHINERY



PLATE A
ELBOW



PLATE B
ELBOW, SIDE OUTLET



PLATE C
TEE



PLATE D
TEE, SIDE OUTLET



PLATE E
CROSS



PLATE F
CROSS, SIDE OUTLET

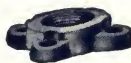


PLATE G
FLOOR FLANGE

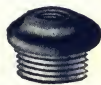


PLATE H
BUSHING



PLATE I ACORN
ORNAMENT

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Elbow.....	.40	.60	.80	1.20	1.60	2.20	4.00	7.00
Elbow, Side Outlet.....	.75	1.00	1.45	1.65	2.05	2.90	6.00	8.50
Tee.....	.60	.85	1.10	1.70	2.00	2.75	6.00	8.50
Tee, Side Outlet.....	1.05	1.25	1.50	2.00	2.30	3.25	7.00	10.00
Cross.....	1.05	1.25	1.50	2.00	2.40	3.25	7.00	10.00
Cross, Side Outlet.....	1.20	1.45	1.70	2.12	2.60	3.50	8.00	11.50
Floor Flange.....	.26	.35	.40	.70	.95	1.30	2.00	3.00
Acorn Ornament.....	.40	.65	.80	.90	1.20	2.50	5.00	7.00
Bushing, reduced one and two sizes.....	.15	.15	.25	.35	.45	.60	1.50	2.50

45° ANGLE RAILING FITTINGS MALLEABLE IRON



PLATE J



PLATE K

Size.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Elbow, Upper.....	.40	.70	.90	1.50	2.00	3.00
Elbow, Upper, Side Outlet.....	.50	.80	1.00	1.65	2.30	3.40
Elbow, Lower.....	.45	.75	.95	1.60	2.00	3.00
Elbow, Lower, Side Outlet.....	.55	.85	1.05	1.75	2.30	3.40
Tee.....	.50	.80	1.00	1.65	2.40	3.80
Tee, Side Outlet.....	.70	.90	1.10	1.80	2.80	4.30
Cross.....	.70	.90	1.16	2.00	3.00	4.50
Cross, Side Outlet.....	.80	1.10	1.30	2.70	3.50	5.20
Floor Flange.....	.40	.50	.60	.70	1.50	2.00

GALVANIZED, DOUBLE LIST

BRASS FITTINGS.

MALLEABLE PATTERN



PLATE A
ELBOW



PLATE B
TEE



PLATE C
CROSS



PLATE D
RETURN BEND.



PLATE E
DROP ELBOW



PLATE F
DROP TEE



PLATE G
STREET ELBOW.



PLATE H
RIGHT HAND COUPLING.



PLATE I
RIGHT AND LEFT HAND COUPLING.



PLATE J
CAP.



PLATE K
PLUG.



PLATE L
LOCK NUT.



PLATE M
BUSHING.

Price List on following pages.

BRASS FITTINGS

MALLEABLE PATTERN. ROUGH

IRON PIPE THREAD

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows.....	.12	.17	.21	.28	.35	.50	.85	1.10	1.50	3.50	4.50	7.00	10.00
Elbows, Reducing...	.22	.26	.35	.45	.62	1.10	1.40	1.90	4.40	5.65	8.75	12.50	
Elbows, 45°.....	.18	.20	.25	.35	.50	.70	1.05	1.40	1.80	4.20	6.00	8.40	12.00
Street Elbows.....			.40	.55	.75	1.00	1.80	2.50	3.25				
Tees.....	.15	.20	.30	.40	.50	.75	1.00	1.30	1.75	4.00	5.50	9.00	13.00
Tees, Reducing....	.25	.38	.50	.63	.95	1.25	1.65	2.20	5.00	6.90	11.25	16.25	
Drop Elb., Female.....			.42	.56	.70	1.00	1.70						
Drop Tees, Female.....		.60	.80	1.00	1.50	2.00							
Crosses.....	.30	.40	.50	.60	.80	1.50	2.00	3.50	5.00	7.00	10.00	14.50	
Crosses, Reducing..	.38	.50	.65	.75	1.00	1.90	2.50	4.40	6.25	8.75	12.50	18.00	
Y Branches.....		.44	.55	1.00	1.25	2.55	2.90	4.50	6.50				
Reducing Couplings...	.16	.22	.32	.45	.65	.90	1.12	1.85	3.00	4.50			
Plugs.....	.09	.10	.12	.15	.20	.28	.40	.50	.90	1.25	2.00	3.00	4.00
Caps.....	.15	.15	.20	.25	.35	.45	.60	.80	1.10	2.00	3.00	5.00	6.00
Locknuts.....	.10	.12	.15	.20	.30	.45	.70	.95	1.50	2.75			
Bushings.....	.10	.12	.14	.21	.38	.50	.67	1.00	1.50	2.50			
Flush Bushings....	.10	.12	.14	.21	.38	.50	.67	1.00					
Couplings.....	.10	.14	.16	.25	.37	.50	.60	.90	1.35	2.40	3.50	5.00	6.00
Couplings, R. and L...	.17	.20	.30	.45	.60	.75	1.12	1.75					
Close Nipples.....	.12	.15	.20	.25	.30	.40	.60	.90	1.25	2.50	3.50	5.10	6.75
Shoulder Nipples...	.14	.18	.25	.30	.38	.50	.75	1.10	1.45	2.75	4.00	6.00	8.00
Long Nipples.....	.15	.20	.30	.35	.45	.60	.90	1.25	1.60	3.00	4.50		
Ret. Bends, close...				.56	.70	1.00	1.70	2.20	3.00				
Ret. Bends, Open...				.70	.88	1.25	2.15	2.75	3.75				
N.P. Brass Elbows...	.44	.56	.72	.84	1.20								
N.P. Br. Elb., 45°...	.50	.64	.86	1.16	1.60								
N.P. Brass Tees...	.52	.76	.98	1.18	1.73								
N.P. Br. Couplings...	.38	.45	.63	.89	1.15								

Finished Fittings double above list.

BRASS PIPE NIPPLES

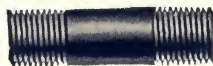


PLATE A

Size	LENGTH, INCHES										
	Close	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6
1/8.....Each	.16	.16	.19	.22	.25	.28	.31	.34	.37	.40	.43
1/4.....Each	.20	.20	.24	.28	.32	.36	.40	.44	.48	.52	.56
3/8.....Each	.23	.23	.28	.33	.38	.43	.48	.53	.58	.63	.68
1/2.....Each	.30	.30	.36	.42	.48	.54	.60	.66	.72	.78	.84
3/4.....Each	.32	.32	.39	.46	.53	.60	.67	.74	.81	.88	.95
1.....Each	.40	.40	.49	.58	.67	.76	.85	.94	1.03	1.12	1.21
1 1/4.....Each	.33	.....	.....	.75	.87	.99	1.11	1.23	1.35	1.47	1.59
1 1/2.....Each	.74	.....	.....	.88	1.02	1.16	1.30	1.44	1.58	1.72	1.86
2.....Each	1.00	.....	.....	1.19	1.38	1.57	1.76	1.95	2.14	2.33	2.52
2 1/2.....Each	1.80	.....	.....	.....	2.04	2.32	2.60	2.88	3.16	3.44	3.72
3.....Each	2.50	.....	.....	.....	2.80	3.20	3.60	4.00	4.40	4.80	5.20
3 1/2.....Each	4.00	.....	.....	.....	.....	.....	5.10	5.68	6.26	6.84	7.42
4.....Each	4.75	.....	.....	.....	.....	.....	5.86	6.53	7.20	7.87	8.54
4 1/2.....Each	6.00	.....	.....	.....	.....	.....	7.20	8.01	8.82	9.63	10.44
5.....Each	8.50	.....	.....	.....	.....	.....	.....	10.30	11.35	12.40	13.45
6.....Each	11.50	.....	.....	.....	.....	.....	.....	13.65	15.05	16.45	17.85



PLATE B

BRASS UNIONS GROUND JOINTS

Size...Inches	1/8	1/4	3/8	1/2	3/4	1
Each.....	.32	.36	.50	.70	.90	1.25
Size...Inches	1 1/4	1 1/2	2	2 1/2	3	...
Each.....	1.70	2.50	3.60	6.00	7.75	.....

BRASS FLANGE UNIONS, ROUGH



PLATE C

Size...In.	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Price....	3.50	3.50	4.10	5.00	5.75	8.25	9.75	14.50	17.50	22.50	25.00	29.00	35.00

Furnished with Iron Bolts unless otherwise ordered.

EXTRA HEAVY BRASS FITTINGS.

MADE FROM CAST IRON FITTING PATTERNS



PLATE A
ELBOW.



PLATE B
TEE.



PLATE C
CROSS.

CAST IRON PATTERN--ROUGH.

FOR IRON PIPE.

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows.....Each	.36	.50	.85	1.05	1.65	2.10	3.00	5.50	8.50	12.50	16.00
Elbows, 45°.....Each	.45	.84	1.20	1.80	2.40	3.60	6.60	10.20	15.50	20.00	
Elbows, Reducing.....Each	.42	.58	.95	1.20	1.90	2.40	3.45	6.30	9.75	14.50	18.50
Elbows, R. and L.....Each	.32	.42	.80	1.15	1.72	2.30	3.45	6.30	9.75		
Tees.....Each	.40	.65	1.00	1.50	2.00	3.00	4.50	7.50	11.00	16.50	20.00
Tees, Reducing.....Each	.46	.75	1.15	1.70	2.30	3.45	5.20	8.60	12.65	17.50	23.00
Crosses.....Each	.90	1.30	1.80	2.75	4.00	5.25	9.00	14.00			
Crosses, Reducing.....Each	1.04	1.50	2.10	3.15	4.60	6.00	10.35	16.00			
Ret. Bends, Close.....Each	1.00	1.15	1.50	2.30	3.30	4.50					
Ret. Bends, Open.....Each	1.00	1.25	2.00	3.25	4.50	6.00					
Couplings, Heavy.....Each	.35	.50	.75	1.00	1.40	1.80	2.75	4.80	7.00		

Caps, Locknuts, and Couplings furnished from Cast Iron Patterns when desired.
We can furnish from this pattern any reducing sizes of Brass Fittings that are made in cast iron, at special prices.

Made in sizes up to 10 inch. Special prices on application.

OCTAGON BRASS UNIONS.

GROUND JOINT

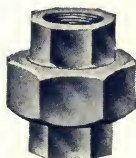


PLATE D
ROUGH



PLATE E
FINISHED

Size...Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Rough...Each	.35	.40	.55	.75	1.00	1.40	1.90	2.75	4.00	6.50	8.50
Finished...Each	.50	.55	.75	1.00	1.50	2.00	2.50	3.00	4.50	.....	.....

STANDARD BRASS GLOBE & ANGLE VALVES



PLATE A
GLOBE, SCREWED



PLATE B
ANGLE, SCREWED



PLATE C
GLOBE, FLANGED

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Globe and Angle Valves, Screwed.....	.72	.72	.77	1.00	1.26	1.80	2.52	3.50
Globe and Angle Valves, Flanged.....				4.50	5.00	6.75	8.50	10.50
Size.....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	
Globe and Angle Valves, Screwed....	5.30	10.00	14.40	26.50	36.00			
Globe and Angle Valves, Flanged....	16.00	23.00	35.00	50.00	70.00	125.00	200.00	

FINISHED GLOBE, ANGLE & CHECK VALVES

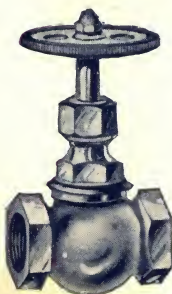


PLATE D

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	
Globe and Angle, Brass Wheel.....	2.25	2.25	2.50	3.15	3.50	4.25	
Globe and Angle, Brass Wheel, Plated All Over.....	2.60	2.60	3.00	3.70	4.10	4.90	
Globe and Angle, Wood Wheel.....	1.60	1.60	2.00	2.15	2.50	3.25	
Globe and Angle, Wood Wheel, Plated All Over.....	1.85	1.85	2.30	2.45	2.85	3.65	
Check Valves, Horizontal.....	1.43	1.45	1.75	2.00	2.25	3.90	
Check Valves, Angle.....	1.50	1.50	1.80	2.10	2.40	4.10	
Extra Heavy Globe and Angle, Brass Wheel.....	2.75	2.75	3.20	4.00	4.75	6.00	
E. H. Globe and Angle, W. W.....	2.15	2.15	2.50	3.00	3.75	5.00	
Ex. Heavy Check, Horizontal.....	2.00	2.00	2.30	2.75	3.50	4.65	
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3		
Globe and Angle, Brass Wheel.....	5.60	7.00	10.25	22.00	33.00		
Globe and Angle, Brass Wheel, Plated All Over.....	6.30	7.75	11.25	24.00	36.00		
Globe and Angle, Wood Wheel.....	4.35	5.75	9.00	20.00	30.00		
Globe and Angle, Wood Wheel, Plated All Over.....	4.80	6.25	9.75	21.50	32.00		
Check Valves, Horizontal.....	4.00	5.20	8.10	18.00	27.00		
Check Valves, Angle.....	4.25	5.50	8.60	19.00	28.50		
Extra Heavy Globe and Angle, Brass Wheel.....	8.30	10.50	15.50	32.00	45.00		
E. H. Globe and Angle, W. W.....	7.00	9.25	14.25	30.00	43.00		
Extra Heavy Check, Horizontal.....	6.50	8.50	13.25	28.00	40.00		

STANDARD BRASS CROSS VALVES



PLATE A

Size.. Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Screwed.....	1.25	1.25	1.50	2.00	2.50	3.50	5.00	8.00	16.00	24.00	45.00	60.00
Flanged.....					9.00	12.00	15.75	22.00	33.00	45.00	75.00	100.00



PLATE B
GLOBE VALVE

EXTRA HEAVY BRASS GLOBE, ANGLE AND CHECK VALVES



PLATE C
ANGLE VALVE

Size..... Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Globe and Angle:												
Screwed.....	1.25	1.45	1.85	2.50	3.50	5.25	7.00	10.50	20.00	27.00	50.00	65.00
Flanged.....			6.50	7.75	10.00	13.50	17.00	27.00	37.00	50.00	78.00	115.00
Check, Screwed..	1.10	1.25	1.65	2.25	3.15	4.75	6.25	9.50	18.00	25.00	45.00	58.00

DOUBLE EXTRA HEAVY

Size..... Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Globe and Angle Valves, Screwed..	2.00	3.00	5.00	7.00	9.00	12.00	16.00
Globe and Angle Valves, Flanged..				12.00	15.00	20.00	27.00
Size..... Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Globe and Angle Valves, Screwed..	28.00	38.00	72.00	94.00	125.00	145.00	215.00
Globe and Angle Valves, Flanged..	37.00	55.00	100.00	115.00	140.00	175.00	245.00



POWELL WHITE STAR VALVES.

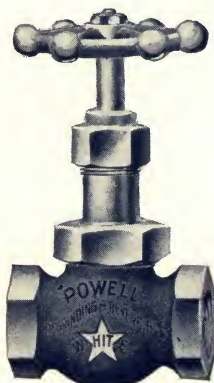


PLATE A
SCREW ENDS

With Renewable White "Powelium" Bronze Seats and Projecting Packing Glands. Regrindable, Reversible, Renewable Discs, Steam Bronze Composition. For steam working pressure up to 200 pounds.

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Globe Valves, S. E.....	1.50	1.75	2.20	3.00	3.80
Globe Valves, F. E.....	3.85	5.65	7.30	9.00	
Angle Valves, S. E.....	1.50	1.75	2.20	3.00	3.80
Angle Valves, F. E.....	3.85	5.65	7.30	9.00	
Cross Valves, S. E.....	2.25	2.25	3.10	3.65	4.85
Cross Valves, F. E.....	5.15	7.90	10.35	12.45	

Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Globe Valves, S. E.....	5.20	7.00	11.00	18.75	26.50
Globe Valves, F. E.....	12.50	17.00	22.30	33.00	46.00
Angle Valves, S. E.....	5.20	7.00	11.00	18.75	26.50
Angle Valves, F. E.....	12.50	17.00	22.30	33.00	46.00
Cross Valves, S. E.....	6.40	9.00	15.60	26.20	39.20
Cross Valves, F. E.....	17.75	22.25	30.30	43.50	60.50

POWELL REGRINDING MODEL STAR VALVES. STEAM BRONZE COMPOSITION

FOR STEAM WORKING PRESSURE UP TO 200 POUNDS

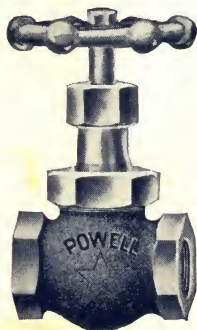


PLATE B
GLOBE, SCREWED

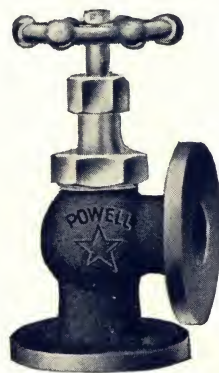


PLATE C
ANGLE, FLANGED

Size.....Inches	$\frac{1}{8}$ - $\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Screw Ends.....	.70	.85	1.15	1.45	2.00	2.80	3.90	6.20	12.00	16.50
Flange Ends.....	2.00	2.20	3.40	4.70	5.80	8.00	11.00	14.50	21.00	29.00

POWELL UNION COMPOSITE DISC VALVES.

STEAM BRONZE COMPOSITION

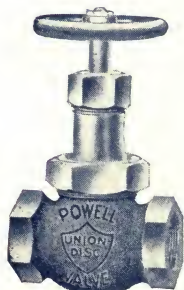


PLATE A
GLOBE VALVE



PLATE B
ANGLE VALVE

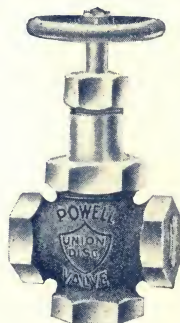


PLATE C
CROSS VALVE



PLATE D
DISC HOLDER



PLATE E
COMPOSITE DISC



PLATE H
DISC NUT

PRICE LIST

Size.....Inches	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plate A, Globe Valves.....	1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.75	15.75	22.00	
Plate B, Angle Valves.....	1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.75	15.75	22.00	
Plate C, Cross Valves.....	1.70	2.00	2.25	2.50	3.25	4.75	6.25	9.50	20.00	27.50	
Plate D, Disc Holder.....	.20	.30	.45	.60	.75	1.00	1.45	2.15	2.60	3.60	
Plate E, Composite Disc.....	.03	.04	.04	.05	.06	.09	.12	.18	.24	.40	
Plate F, Soft Metal Disc.....	.06	.06	.07	.08	.10	.13	.18	.22	.50	.76	
Plate G, Bronze Metal Disc.....	.14	.14	.16	.20	.22	.28	.30	.34	.60	.85	
Plate H, Disc Nut.....	.05	.07	.10	.12	.15	.20	.25	.35	.50	.75	

POWELL STRAIGHTWAY Y-BLOW-OFF VALVES.

WITH REVERSIBLE DISCS INSERTED SEAT RINGS.
STEAM BRONZE COMPOSITION

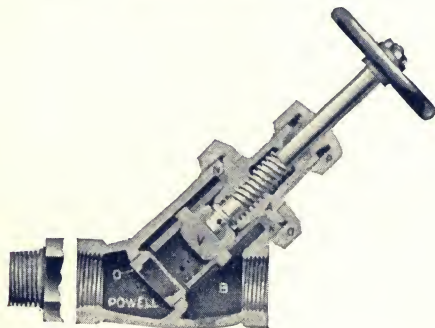


PLATE A

MODEL STAR—FOR STEAM WORKING PRESSURE UP TO
175 POUNDS.

Size.....Inches	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Double Female or Male and Female...	3.00	4.00	5.00	6.50	9.25	18.00	25.00
Flange Ends.....		9.00	11.00	13.00	20.00	28.00	37.00

Also made with White Star and Union, Discs.

JENKINS DISC, BRASS GLOBE AND ANGLE VALVES.

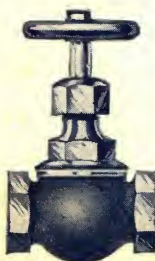
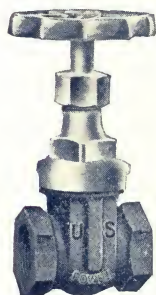


PLATE B
GLOBE VALVE.

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Globe and Angle Valves, Screwed...	1.10	1.10	1.25	1.60
Globe and Angle Valves, Flanged...	3.50	4.00	4.00	4.00
Size.....Inches	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Globe and Angle Valves, Screwed...	2.20	2.80	4.00	5.50
Globe and Angle Valves, Flanged...	5.00	6.00	9.00	10.00
Size.....Inches	2	2 $\frac{1}{2}$	3	
Globe and Angle Valves, Screwed...	8.75	15.75	22.00	
Globe and Angle Valves, Flanged...	16.50	25.00	34.00	


PLATE A

POWELL U. S. GATE VALVES.

FOR STEAM WORKING PRESSURE UP TO
100 POUNDS.

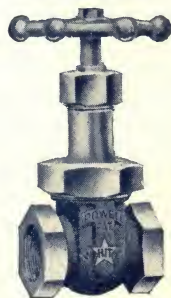
Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Plate A.....Each	1.25	1.25	1.30	1.75	2.50
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plate A.....Each	3.50	5.00	7.50	14.00	20.00

POWELL WHITE STAR GATE VALVES. DOUBLE WEDGE DISCS, SELF-ADJUSTING RISING STEMS.

WITH PATENT UNION BONNET, PROJECTING
PACKING GLAND

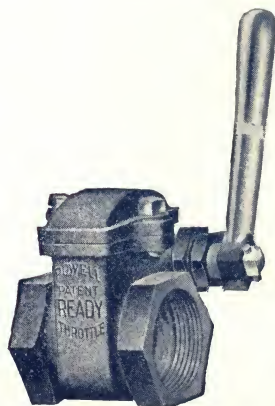
FOR STEAM WORKING PRESSURE UP TO
150 POUNDS

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Plate B—Screw Ends....	1.25	1.25	1.30	1.75	2.50
Plate B—Flange Ends....	2.50	2.50	3.00	4.00	5.25
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plate B—Screw Ends....	3.50	5.00	7.50	14.00	20.00
Plate B—Flange Ends....	7.75	10.50	14.00	21.00	32.00


PLATE B

POWELL PATENT READY LEVER THROTTLE VALVES. STEAM BRONZE COMPOSITION FOR STEAM WORKING PRESSURE UP TO 75 POUNDS

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Plate C....Each	1.60	1.80	2.50	3.50
Size.....Inches	$1\frac{1}{4}$	2	$2\frac{1}{2}$	3
Plate C....Each	5.00	7.50	13.50	19.00


PLATE C

TITAN PATTERN 175 POUNDS WORKING PRESSURE

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Plate C....Each	2.50	3.00	4.00	5.00
Size.....Inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plate C....Each	7.00	10.00	19.00	29.00



POWELL BRASS UNION DISC CHECK VALVES



PLATE A
HORIZONTAL

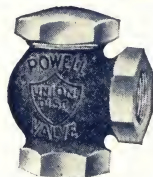


PLATE B
ANGLE

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plate A—Horizontal...Each	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	21.00
Plate B—Angle.....Each	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	21.00

STANDARD BRASS CHECK VALVES.

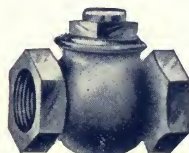


PLATE C
HORIZONTAL



PLATE D
VERTICAL



PLATE E
ANGLE CHECK

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Horizontal, Screwed.....	.65	.65	.70	.90	1.15	1.60	2.25	3.15
Horizontal, Flanged.....	.....	.....	.....	4.40	4.90	6.50	8.25	10.15
Vertical and Angle, Screwed..	.72	.72	.77	1.00	1.26	1.80	2.52	3.50
Vertical and Angle, Flanged..	.....	.....	.....	4.50	5.00	6.75	8.50	10.50
Horizontal, with Drip Cock, Screwed.....	.....	.....	.....	2.15	2.55	3.15	4.05	5.40
Vertical, Cap on Side, Screwed	.....	.....	.....	1.85	2.50	3.25	4.15	5.00
Size.....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	..
Horizontal, Screwed.....	4.75	9.00	13.00	24.00	32.50	.....	.....	.....
Horizontal, Flanged.....	15.50	22.00	33.50	47.50	66.50	120.00	190.00	.....
Vertical and Angle, Screwed..	5.30	10.00	14.40	26.50	36.00	.....	.....	.....
Vertical and Angle, Flanged..	16.00	23.00	35.00	50.00	70.00	125.00	200.00	.....
Vertical, Cap on Side, Screwed	7.25	18.00	25.00	.....	.....	.....	.....	.....

STANDARD BRASS SWING CHECK VALVES



PLATE F

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Screw Ends.....	1.30	1.50	1.75	2.25	3.25
Size.....Inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Screw Ends.....	4.25	6.25	12.00	20.00	.....



PLATE A

BRONZE HOSE GATE VALVES.

STATIONARY STEM.

FOR MEDIUM HEAVY PRESSURES.

Size.....Inches	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
With Iron Wheel.....	1.75	2.50	3.50	5.00	7.50	14.00	20.00
With Finished Bronze Wheel.....	3.25	4.05	5.50	7.10	10.30	18.00	25.00
With Finished Bronze Wheel M. & F. Hose Thread.....	3.75	4.60	6.10	7.85	11.15	19.00	26.25
With Iron Wheel M. & F. Hose Thread.....	2.25	3.05	4.10	5.75	8.35	15.00	21.25
Extra for Cap and Chain.....	1.25	1.25	1.35	1.50	1.75	2.50	3.50

These valves have rough bodies and finished trimmings.

HOSE END VALVES.

Size.....Inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Globe and Angle...Each	3.30	4.70	6.50	9.15	17.10	23.35
Globe and Angle, Finished with Brass Wheel..Each	4.55	5.95	8.50	11.65	21.10	28.35

Also Finished and Nickel Plated all over; prices on application.



PLATE B

COMPRESSION SILL COCKS.

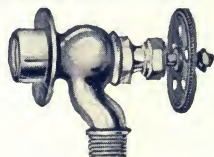


PLATE C

Size.....Inches	$\frac{3}{4}$
Finished.....	Per Dozen 31.80
Nickel Plated.....	Per Dozen 35.40

Add for Caps, \$4.00 per dozen.

Also furnished with Loose Key instead of Wheel.

STANDARD BRASS SAFETY VALVES

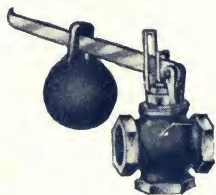


PLATE A
SCREWED

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Screwed.....	3.25	3.90	4.70	7.15	9.00	12.50	22.50	33.50
Flanged.....	7.00	8.90	11.20	15.50	19.75	26.50	39.50	54.50
Angle, Screwed.....	3.25	3.90	4.70	7.15	9.00	12.50	22.50	33.50
Angle, Flanged.....	6.75	7.65	9.65	13.15	16.00	23.30	35.50	53.00

LOW PRESSURE SAFETY VALVES

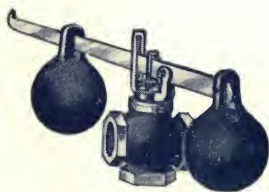


PLATE B
WITH BALANCE WEIGHT



PLATE C
WITH BALL ON TOP

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
With Balance Weight.....Each	3.00	3.75	5.50	7.75	9.50	12.35
Ball on Top.....Each	1.50	2.25	3.00	4.00	5.50	.....
Ball on Top, Angle Pattern.....Each	2.25	2.60	3.30	4.50	6.35	8.65



STANDARD IRON BODY GLOBE AND ANGLE VALVES

BRASS MOUNTED.

PLAIN TOP

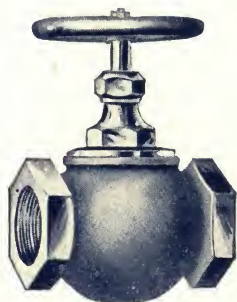


PLATE A
GLOBE, SCREWED



PLATE B
ANGLE, SCREWED

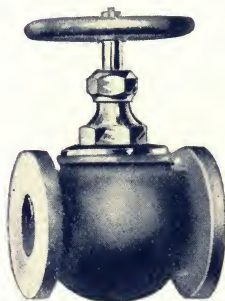


PLATE C
GLOBE, FLANGED



PLATE D
ANGLE, FLANGED

Size.....Inches	1	1 ¼	1 ½	2	2 ½	3
Screwed, Angle and Globe.....	2.25	2.75	3.50	5.40	7.35	9.80
Flanged, Angle and Globe.....	3.25	3.85	4.80	7.00	9.00	12.50

STANDARD IRON BODY GLOBE AND ANGLE VALVES

BRASS MOUNTED.

YOKE TOP

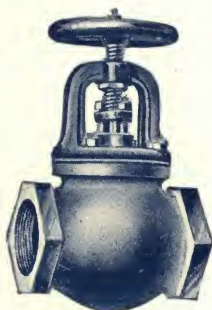


PLATE A
GLOBE, SCREWED



PLATE B
ANGLE, SCREWED

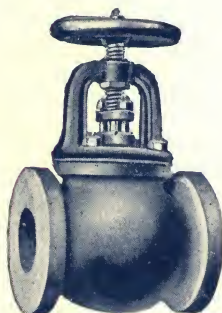


PLATE C
GLOBE, FLANGED

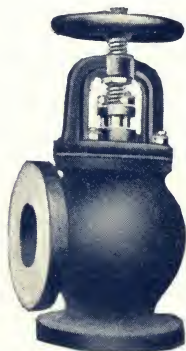


PLATE D
ANGLE, FLANGED

Size.....Inches	2	2½	3	3½	4	4½	5	6
Screwed, Globe and Angle.	7.00	9.00	12.50	15.25	19.00	24.00	27.00	37.50
Flanged, Globe and Angle.	8.60	10.75	15.00	18.50	22.50	27.50	31.00	42.00
Size.....Inches	7	8	9	10	12	14	16	..
Screwed, Globe and Angle.	63.00	72.00	100.00	114.00	170.00	.....	.....	.....
Flanged, Globe and Angle.	68.00	77.00	110.00	123.00	187.00	350.00	475.00	.....



STANDARD IRON BODY CROSS VALVES

BRASS MOUNTED

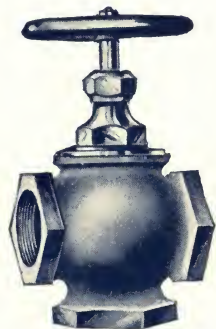


PLATE A
CROSS, SCREWED
PLAIN TOP

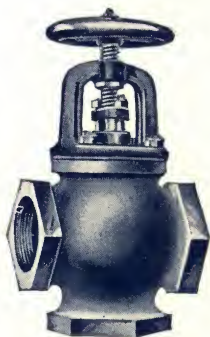


PLATE B
CROSS, SCREWED,
YOKE TOP

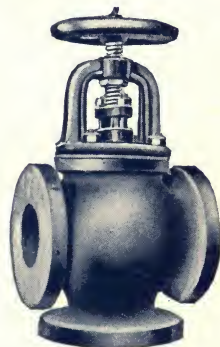


PLATE C
CROSS, FLANGED,
YOKE TOP

Size.....Inches	2	2½	3	3½	4	4½	5	6
Screwed, Plain Top....	6.50	9.00	12.50	.....	.....	.....	.....	.....
Flanged, Plain Top....	9.00	11.75	16.50	.....	.....	.....	.....	.....
Screwed, Yoke Top....	8.50	11.75	16.25	20.00	23.50	30.65	35.25	47.25
Flanged, Yoke Top....	11.00	14.50	20.00	25.00	28.50	36.00	41.00	54.00
Size.....Inches	7	8	9	10	12	14	16	..
Screwed, Yoke Top....	78.00	92.00	150.00	162.00	240.00	.....	.....	.....
Flanged, Yoke Top....	85.00	100.00	163.00	175.00	265.00	475.00	700.00	.....

POWELL UNION COMPOSITE DISC VALVES.

WITH OUTSIDE SCREW STEM AND YOKE TOP
IRON BODY. HEAVY PATTERN.

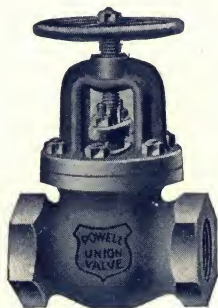


PLATE A
GLOBE VALVE
SCREW ENDS

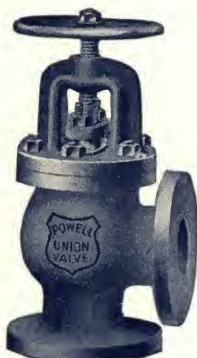


PLATE B
ANGLE VALVE
FLANGE ENDS

GLOBE AND ANGLE VALVES

Size.....Inches	2	2½	3	3½	4	4½	5	6	7	8
Screw Ends.....	10.00	12.00	16.75	19.50	24.00	32.00	40.00	48.00	80.00	90.00
Flange Ends.....	11.75	14.00	18.50	21.50	26.00	34.00	42.00	50.00	80.00	90.00
Comp'n Disc.....	.18	.24	.40	.50	.60	.70	.80	1.00	1.20	1.40
Soft Metal Disc.....	.22	.50	.76	.90	1.35	1.60	1.85	2.35	2.50	3.25
Bronze Met. Dis.....	.34	.60	.85	1.35	1.60	2.00	2.30	2.60	3.70	4.00
Disc Holder.....	2.40	2.85	3.95	5.25	6.40	7.95	12.00	16.00	22.25	28.65
Disc Nut.....	.15	.20	.25	.40	.60	.85	1.25	1.75	2.25	3.00

CROSS VALVES

Size.....Inches	2½	3	3½	4	4½	5	6	7	8
Screw Ends.....	16.00	21.00	26.00	30.00	42.00	45.00	50.00	90.00	100.00
Flange Ends.....	19.00	24.00	29.00	33.00	45.00	48.00	62.00	90.00	100.00

CHECK VALVES

Size.....Inches	2	2½	3	3½	4	4½	5	6	7	8
Horizon., S. E.....	8.00	11.00	14.00	17.00	20.00	25.00	30.00	40.00	65.00	80.00
Horizon., F. E.....	10.00	13.00	16.50	20.00	23.00	28.00	33.00	43.00	65.00	80.00
Angle, S. E.....	8.00	11.00	14.00	17.00	20.00	25.00	30.00	40.00	65.00	80.00
Angle, F. E.....	10.00	13.00	16.50	20.00	23.00	28.00	33.00	43.00	65.00	80.00

POWELL PATENT CYCLONE BLOW-OFF VALVE.

IRON BODY.

REGRINDABLE, REVERSIBLE, RENEWABLE

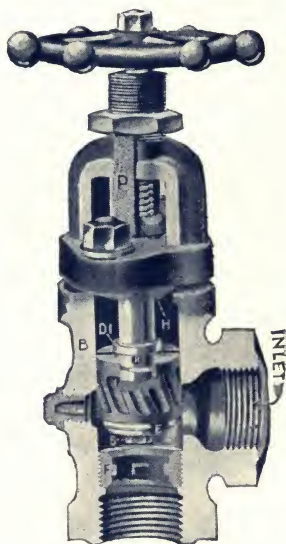
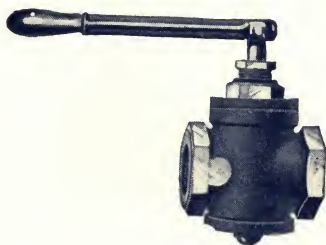


PLATE A

Both Discs and Seats are made of White "Powellium" Bronze, and having two faces, are Regrindable, Reversible and Renewable.

Size.....Inches	1 ¼	1 ½	2	2 ½	3
Fig. 550—Screw Ends.....	7.50	10.00	13.50	18.20	27.50
Fig. 551—Flange Ends.....	8.70	11.20	15.00	20.00	30.00
Fig. 552—"Powellium" White Metal Discs.....	.80	1.00	1.35	2.25	3.35
Fig. 553—"Powellium" White Metal Seat Rings.....	1.00	1.20	1.65	2.80	3.90
Fig. 554—Disc Holders.....	1.40	1.85	2.60	5.00	9.00
Fig. 555—Disc Nuts.....	.20	.25	.35	.50	.75

IRON BODY THROTTLE VALVES



Size...Inches	1	1 1/4	1 1/2	2
Screwed.....	10.00	12.50	15.00	22.50
Flanged.....	11.00	13.50	16.50	24.00
Size...Inches	2 1/2	3	3 1/2	4
Screwed.....	30.00	40.00	50.00	60.00
Flanged.....	32.00	42.50	53.00	64.00
Size...Inches	4 1/2	5	6	7
Screwed.....	88.00	106.00	120.00	140.00
Flanged.....	91.00	110.00	125.00	145.00

PLATE A

STANDARD IRON BODY SAFETY AND BACK PRESSURE VALVES

BRASS MOUNTED

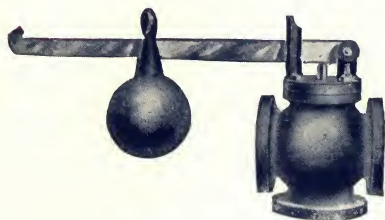


PLATE B
SAFETY

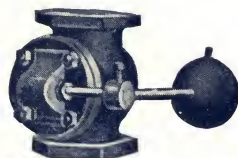


PLATE C
BACK PRESSURE

SAFETY VALVES

Size.....Inches	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2
Screwed.....	4.00	5.00	5.80	7.80	13.25	17.25	23.00
Flanged.....				10.25	16.00	21.50	27.50
Size.....Inches	4	4 1/2	5	6	7	8	...
Screwed.....	28.75	34.50	41.50	57.75	93.50	132.00	.....
Flanged.....	34.00	40.00	48.00	65.00	100.00	140.00	.....

BACK PRESSURE VALVES

Size....Inches	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
Screwed.....	9.00	11.00	13.00	15.00	19.00	22.50	28.50	33.50
Flanged.....	10.50	12.75	15.00	17.50	22.00	26.00	32.00	37.00
Size....Inches	6	7	8	9	10	12	14	16
Screwed.....	43.00	70.00	85.00	110.00	120.00	180.00	.....	.....
Flanged.....	47.00	75.00	90.00	120.00	130.00	200.00	350.00	475.00

STANDARD IRON BODY CHECK VALVES BRASS MOUNTED

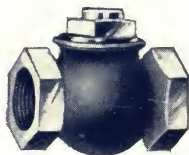


PLATE A

HORIZONTAL CHECK, SCREWED



PLATE B

ANGLE CHECK, SCREWED

Size.....Inches	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
Hor. and Angle, Screwed.....	1.50	2.20	2.65	3.60	6.50	8.90	12.25	14.25	19.00	22.00
Hor. and Angle, Flanged.....	2.50	3.25	4.00	5.25	8.25	11.50	15.50	18.00	22.50	26.00
Vertical, Screwed.....	.....	.....	.....	7.00	9.50	12.50	17.00	21.00	30.00	33.00
Vertical, Flanged.....	.....	.....	.....	8.75	11.50	15.00	20.00	25.00	33.50	37.00
Size.....Inches	6	7	8	9	10	12	14	16		
Hor. and Angle, Screwed.....	30.00	45.00	57.00	95.00	105.00	155.00	.....	.....
Hor. and Angle, Flanged.....	35.00	50.00	62.00	105.00	115.00	175.00	300.00	425.00		
Vertical, Screwed.....	40.00	62.00	73.00	.....	.....	.....	.....	.....
Vertical, Flanged.....	45.00	67.00	78.00	.....	.....	.....	.....	.....

IRON BODY BRONZE MOUNTED SWINGING CHECK VALVES

Size.....Inches	2 1/2	3	3 1/2	4	5	6	7	8	10	12
Screwed.....	15.00	18.00	24.00	27.00	38.00	48.00	62.00	75.00	125.00	220.00
Flanged.....	17.00	21.00	27.00	30.00	42.00	52.00	67.00	80.00	135.00	220.00
Bell Ends.....	.....	24.00	.....	35.00	48.00	60.00	.....	90.00	160.00	265.00

IRON BODY P. & C. CHECK VALVES STRAIGHTWAY SWINGING

Size.....Inches	2	2 1/2	3	3 1/2	4	4 1/2	5
Flanged.....	6.25	10.00	12.00	16.00	18.00	21.50	25.00
Screwed.....	6.25	10.00	12.00	16.00	18.00	21.50	25.00
Bell Ends.....	6.25	.....	12.00	.....	18.00	.....	25.00
Size.....Inches	6	7	8	10	12	14	16
Flanged.....	32.00	41.00	50.00	104.00	152.00	289.00	334.00
Screwed.....	32.00	41.00	50.00	104.00	152.00	.....	.....
Bell Ends.....	32.00	41.00	50.00	104.00	152.00	289.00	334.00

IRON BODY ANGLE CHECK VALVES STRAIGHTWAY SWINGING

Size....Inches	2 1/2	3	3 1/2	4	5	6	7	8
Screw Ends...	10.00	12.00	16.00	18.00	25.00	32.00	41.00	50.00
Flange Ends...	10.00	12.00	16.00	18.00	25.00	32.00	41.00	50.00

IRON FOOT VALVES WITH STRAINERS



**PLATE A
SCREWED**



**PLATE B
FLANGED**

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Diameter of Flanges.....Inches	....	....	....	....	....	....	$7\frac{1}{2}$	$8\frac{1}{2}$	9	$9\frac{1}{4}$
Screwed, Painted.....Each	.42	.42	.48	.62	.82	1.20	1.70	2.50	2.75	4.00
Screwed, Galvanized.....Each	.60	.60	.75	1.00	1.45	2.00	2.70	3.90	4.25	6.00
Flanged, Painted.....Each	....	....	....	....	....	....	2.25	3.00	3.60	4.75
Flanged, Galvanized.....Each	....	....	....	....	....	....	3.50	4.50	5.50	7.25
Size.....Inches	5	6	7	8	10	12	14	15	16	
Diam. of Flanges...In.	10	11	$12\frac{1}{2}$	$13\frac{1}{2}$	16	19	21	$22\frac{1}{4}$	$23\frac{1}{2}$	
Screwed, Painted...Each	4.25	7.00	16.00	16.00	29.00	58.00	118.00	132.00	.....
Screwed, Galv'd...Each	6.50	10.00	30.00	30.00	50.00	90.00	150.00	160.00	.....
Flanged, Painted...Each	5.00	8.00	16.50	16.50	30.00	60.00	120.00	135.00	145.00	
Flanged, Galv'd...Each	7.50	12.00	32.00	32.00	52.00	95.00	155.00	165.00	180.00	

CAST IRON STRAINERS SCREWED ONLY

STEAM METAL FOOT VALVES AND STRAINERS. SCREWED



PLATE C



PLATE D

CAST IRON STRAINERS. SCREWED ONLY

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	8
Painted.....Each	.30	.40	.50	.75	1.00	1.50	2.00	3.00	3.75	4.75	4.75	6.50	15.00
Galvanized..Each	.40	.50	.75	1.00	1.50	2.00	3.00	4.50	6.00	7.00	7.00	10.00	20.00

STEAM METAL FOOT VALVES AND STRAINERS. SCREWED

Size....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price....Each	1.50	1.50	2.00	2.75	3.75	5.50	12.00	16.00

IRON BODY EXPANSION JOINTS



BRASS SLEEVE



PLATE A
SCREWED, REGULAR TRAVERSE

PLATE B
FLANGED, REGULAR TRAVERSE

STANDARD, SCREWED. REGULAR TRAVERSE

Size.....Inches	2	2 1/2	3	3 1/2	4	4 1/2	5
Length of Traverse.....Inches	6	6	6	6	6	6	6
Screwed, Standard.....	11.00	13.00	17.50	25.00	30.00	40.00	45.00
Size.....Inches	6	7	8	9	10	12	..
Length of Traverse.....Inches	6	6	7	7	7	8	..
Screwed, Standard.....	55.00	70.00	100.00	110.00	160.00	225.00	.....

STANDARD, SCREWED. SPECIAL TRAVERSE

Traverse	Size.....Inches	2	2 1/2	3	3 1/2	4	4 1/2	5	6
2 1/2	Price.....	7.00	8.00	.....	.....	.....	.....	.....	.....
2 3/4	Price.....	.....	.....	10.00	.....	.....	.....	.....	.....
3	Price.....	.....	.....	.....	14.00	.....	.....	.....	.....
3 1/4	Price.....	.....	.....	.....	.....	18.00	.....	.....	.....
4	Price.....	.....	.....	.....	.....	.....	38.00	.....	.....
5	Price.....	.....	.....	.....	.....	.....	.....	45.00	.....
10	Price.....	16.00	19.00	25.00	35.00	42.00	52.00	62.00	80.00
12	Price.....	18.50	22.00	29.00	41.00	48.00	60.00	70.00	92.50
14	Price.....	21.00	25.00	33.00	45.00	54.00	67.00	78.00	.....
16	Price.....	23.50	28.00	37.00	50.00	60.00	75.00	86.00	.....
18	Price.....	26.00	31.00	41.00	55.00	66.00	.....	.....	.....

STANDARD, FLANGED. REGULAR TRAVERSE

Size.....Inches	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Length of Traverse..In.	6	6	6	6	6	6	6	6
Flanged, Standard.....	18.00	20.00	25.00	35.00	40.00	50.00	55.00	65.00
Size.....Inches	7	8	9	10	12	14	15	16
Length of Traverse..In.	6	7	7	7	8	10	10	10
Flanged, Standard.....	80.00	110.00	120.00	175.00	250.00	500.00	500.00	600.00

STANDARD, FLANGED SPECIAL TRAVERSE

Traverse	Size...Inches	2	2 1/2	3	3 1/2	4	4 1/2	5	6
2 1/2	Price.....	15.00	16.00	.....	.....	.....	.....	.....	.....
2 3/4	Price.....	.....	.....	18.50	.....	.....	.....	.....	.....
3	Price.....	.....	.....	.....	25.00	.....	.....	.....	.....
3 1/4	Price.....	.....	.....	.....	.....	30.00	.....	.....	.....
4	Price.....	.....	.....	.....	.....	.....	48.00	.....	.....
5	Price.....	.....	.....	.....	.....	.....	.....	55.00	.....
10	Price.....	23.00	26.00	32.50	45.00	52.00	63.00	72.00	90.00
12	Price.....	25.50	29.00	36.50	50.00	58.00	70.00	80.00	102.50
14	Price.....	28.00	32.00	40.50	55.00	64.00	77.00	88.00	.....
16	Price.....	30.50	35.00	44.50	60.00	70.00	85.00	96.00	.....
18	Price.....	33.00	38.00	48.50	65.00	76.00	.....	.....	.....

BRASS EXPANSION JOINTS

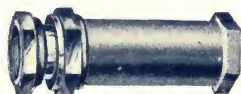


PLATE A

STANDARD OR WESTERN TRAVERSE

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Traverse.....Inches	2	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{3}{4}$
Price.....	1.50	2.20	2.75	4.00	5.00	8.00	17.50	24.00

EASTERN TRAVERSE

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Traverse.....Inches	4	4	4	4	4	4	5	5
Price.....	3.80	4.00	4.90	6.30	7.40	9.10	20.00	28.00

SPECIAL TRAVERSE

Size.....Inches		$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Traverse, 6 inches.....Each		8.25	9.00	10.00	11.50	13.50	24.00
Traverse, 8 inches.....Each		9.00	10.00	11.25	13.00	15.50	
Traverse, 10 inches.....Each		9.75	11.00	12.50	14.50	17.50	
Traverse, 12 inches.....Each		10.50	12.00	13.75	16.00	19.50	

NOTE.—The expansion will average about one inch in 50 feet of pipe.

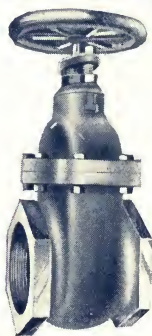
BRASS SWING JOINTS



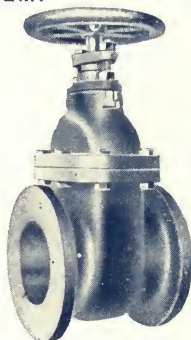
PLATE B

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Each	1.00	1.25	1.75	2.40	3.50	4.50	6.25	9.00
Finished.....Each	1.25	1.50	2.00	2.75	4.00	5.00	7.00	10.00

**STANDARD IRON BODY BRASS MOUNTED
GATE VALVES.
STATIONARY STEM.**



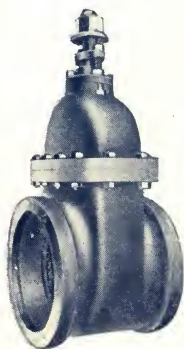
**PLATE A
SCREWED.**



**PLATE B
FLANGED.**

SCREWED OR FLANGED.

Size.....Inches	2	2 1/2	3	3 1/2	4	4 1/2	5
Each.....	10.00	12.00	15.00	18.00	20.00	23.00	25.00
Size.....Inches	6	7	8	9	10	12	.....
Each.....	30.00	45.00	55.00	80.00	90.00	125.00	.....



**PLATE C
HUB ENDS.**

To open by turning stem to left and with a 2-inch square nut on stem unless otherwise ordered.

These valves are specially constructed for street mains to withstand rough u-age incidental to such service.

Size.....Inches	2	3	4	5
Each.....	10.00	15.00	20.00	25.00
Size.....Inches	6	8	10	12
Each.....	30.00	55.00	90.00	125.00

STANDARD IRON BODY BRASS MOUNTED GATE VALVES.



PLATE A
OUTSIDE RISING STEM AND YOKE.

SCREWED OR FLANGED

Size, Inches	2½	3	3½	4	4½	5
Price...each	20.00	23.00	28.00	33.00	40.00	46.00

Size, Inches	6	7	8	10	12
Price...each	55.00	70.00	90.00	135.00	170.00

SCREWED OR FLANGED.

Size, . Inches	2½	3	3½	4
Price...each	18.00	22.00	25.00	27.00

Size, . Inches	4½	5	6	7
Price...each	31.00	35.00	40.00	57.00



PLATE B
RISING STEM AND LEVER.

HEAVY IRON BODY BRASS MOUNTED GATE VALVES.

FOR STEAM PRESSURE UP TO 160 POUNDS.

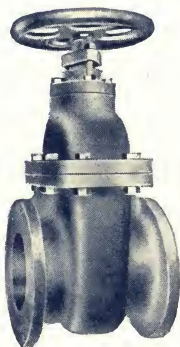


PLATE A
INSIDE STEM.

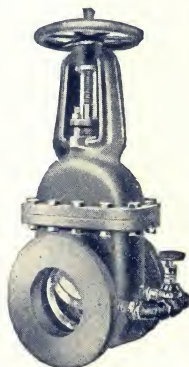


PLATE B
OUTSIDE STEM AND YOKE.

Size.....Inches	2½	3	3½	4	4½	5
Inside Stem, Screwed or Flanged.....	12.00	15.00	18.00	20.00	23.00	25.00
Outside Stem and Yoke, Screwed or Flanged.....	20.00	23.00	28.00	33.00	40.00	46.00
Size.....Inches	6	7	8	10	12	
Inside Stem, Screwed or Flanged.....	30.00	45.00	55.00	90.00	125.00	
Outside Stem and Yoke, Screwed or Flanged..	55.00	70.00	90.00	135.00	170.00	
Add for By-Pass.....			35.00	35.00	40.00	



PLATE C

FLOOR STANDS.

We furnish these stands as shown and with graduated indicator on side and also without indicator for stationary stem valves.

When ordering give size of valve, if rising or stationary stem, number turns required to open or shut valve, if stem turns to right or left to open.

MURDOCK HYDRANTS AND STREET WASHERS



**PLATE A
HYDRANT.**



**PLATE B
STREET WASHER.**

HYDRANTS.

To Set in Ground.....Feet	2	2 ½	3	3 ½	4	5	6
Size, ¾ inch.....Each	9.00	10.00	10.00	11.00	11.00	12.00	13.00
Size, 1 Inch.....Each			12.50	13.50	13.50	14.50	15.50
Size, 1 ¼ and 1 ½ Inch.....Each			18.00	22.00	22.00	24.00	26.00
To Set in Ground.....Feet	2	2 ½	3	3 ½	4	5	6
¾ Inch Self-Closing Hydrant.....Each	11.00	12.00	12.00	13.00	13.00		

STREET WASHERS

To Set in Ground.....Feet	2	2 ½	3	3 ½	4	5	6
Size, ¾ Inch.....Each	8.00	8.50	8.50	9.50	9.50	10.50	11.50
Size, 1 Inch.....Each			10.00	11.00	11.00	12.00	13.00
Size, 1 ¼ and 1 ½ Inch.....Each			15.00	16.00	16.00	18.00	20.00

When ordering give length to set in ground and size, also whether for lead or iron pipe.

SERVICE AND VALVE BOXES.

NEW PATTERN SERVICE BOXES. 2 1-2 INCH DIAMETER.

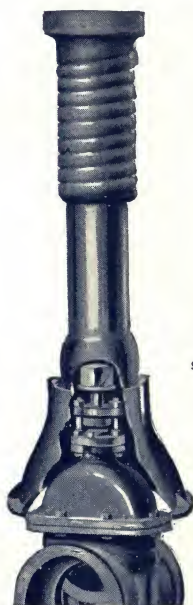


PLATE A
VALVE BOX.



PLATE B
SERVICE BOX.



PLATE C
EXTENSION SECTION.

Size.....	88	89A	90B	91C	92C
Extension In.	12	12-20	18-26	21-33	24-38
Price.....	1.10	1.20	1.30	1.40	1.46
Size.....	92D	93D	93E	94D	
Extension In.	24-42	36-48	36-54	42-57	
Price.....	1.50	1.60	1.66	1.70	
Size.....	94E	95E	100E	100F	
Extension In.	42-60	48-66	54-72	54-78	
Price.....	1.80	2.00	2.10	2.20	

OLD STYLE SERVICE BOXES. 3 INCH DIAMETER.

Size.....	0	1	1½	2
Extension..... Inches	10	13-21	18-28	24-39
Price.....	1.30	1.60	1.70	1.80
Size.....	3	4	5	7
Extension..... Inches	32-48	34-58	42-66	48-72
Price.....	2.00	2.10	2.30	2.60

VALVE BOXES, 5 1-4 INCH SHAFT.

Size.....	AAA	AA	A	B	C	CC
Extending..... Inches	17	22-28	28-40	36-48	42-54	48-60
Price.....	4.80	5.50	5.80	6.10	6.30	6.70
Size.....	D	DD	E	F	G	H
Extending..... Inches	42-66	48-72	60-72	60-84	72-84	72-96
Price.....	7.00	7.40	7.50	7.80	8.20	8.50

EXTENSION SECTION FOR SERVICE BOXES.

Inches.....		2½			3	
Size.....	151	152	153	154	155	156
Increasing Length of Box, Inches	9½	16½	28	33	20	24
Price.....	.70	.80	1.00	1.10	.90	1.00



IRON COCKS, STANDARD



PLATE A
SQUARE HEAD

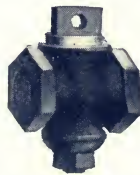


PLATE B
FLAT HEAD



PLATE C
THREE-WAY

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
All Iron Cocks, Screwed.....	.85	.90	1.05	1.30	1.60	1.95	2.70
Iron Cocks, with Brass Washer, Screwed.....	1.00	1.20	1.55	1.95	2.35	2.75	3.20
Iron Cocks, with Brass Plug, Screwed.....	1.25	1.30	1.60	1.90	2.65	3.75	5.25
Iron Cocks, with Brass P. and W., Screwed.....	1.40	1.75	2.15	3.00	4.15	5.75	7.50
All Iron 3-Way Cocks, Screwed.....	1.65	1.80	2.05	2.65	3.65	4.15	5.25
Iron 3-Way Cocks with Brass Washer, Screwed.....	1.80	2.20	2.40	3.10	4.50	6.25	8.75
Iron 3-Way Cocks with Brass Plug, Screwed.....	2.20	2.35	2.65	3.45	4.90	6.75	9.25
Iron 3-Way Cocks with Brass P. and W., Ser'd.....	2.35	2.65	3.45	4.90	6.75	9.25	12.00
All Iron Cocks, Flanged.....	2.25	2.75	3.25	4.75	5.25	6.75	8.25
Iron Cocks with Brass Washer, Flanged.....	2.50	3.10	3.65	4.75	5.25	6.75	8.25
Iron Cocks with Brass Plug, Flanged.....	3.00	3.75	5.00	7.00	7.50	9.00	11.00
Iron Cocks with Brass Plug and Washer, Flgd.....	3.25	4.10	5.40	7.50	8.00	9.50	11.50
All Iron 3-Way Cocks, Flanged.....	3.75	4.25	5.25	7.00	7.50	9.00	11.00
3-Way, Iron Cocks, with Brass Washer, Flgd.....	4.00	4.60	5.65	7.50	8.00	9.50	11.50
3-Way, Iron Cocks, with Brass Plug, Flanged.....	4.50	5.25	7.00	9.50	10.00	11.50	14.00
3-Way, Iron Cocks, with Brass P. and W., Flgd.....	4.75	5.60	7.40	10.00	10.50	12.00	14.50

Size.....Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
All Iron Cocks, Screwed.....	4.40	6.75	12.00	15.50	32.00	45.00
Iron Cocks, with Brass Washer, Screwed.....	5.15	7.75	14.00	19.00	38.00	53.00
Iron Cocks, with Brass Plugs, Screwed.....	8.75	13.00	27.50	36.50	67.00	94.00
Iron Cocks, with Brass P. and W., Screwed.....	9.50	14.00	29.50	40.00	73.00	102.00
All Iron 3-Way Cocks, Screwed.....	5.35	7.50	14.00	19.00	36.50	52.00
Iron 3-Way Cocks, with Brass Washer, Ser'd.....	6.10	8.50	16.00	22.50	42.50	60.00
Iron 3-Way Cocks, with Brass Plug, Screwed.....	9.75	13.75	30.00	40.00	71.50	100.00
Iron 3-Way Cocks, with Brass P. and W., Ser'd.....	10.50	14.75	32.00	43.50	77.50	108.00
All Iron Cocks, Flanged.....	6.25	9.50	15.00	19.00	36.00	50.00
Iron Cocks, with Brass Washer, Flanged.....	7.00	10.50	17.00	22.50	42.00	58.00
Iron Cocks, with Brass Plug, Flanged.....	10.50	15.75	30.00	40.00	70.00	100.00
Iron Cocks, with Brass P. and W., Flanged.....	11.25	16.75	32.00	43.50	76.00	108.00
All Iron 3-Way Cocks, Flanged.....	9.00	12.75	20.00	26.00	44.00	60.00
3-Way Iron Cocks, with Brass Washer, Flanged.....	9.75	13.75	22.00	29.50	50.00	68.00
3-Way Iron Cocks, with Brass Plug, Flanged.....	13.25	19.00	36.00	47.00	80.00	108.00
3-Way I. C., with Brass P. and W., Flanged.....	14.00	20.00	38.00	50.50	86.00	116.00

Always state whether Square or Flat Heads are wanted.

Unless otherwise ordered, we shall supply Brass Plug Cocks, with Brass Washers.

IRON COCKS.

VULCANIZED ASBESTOS PACKED.

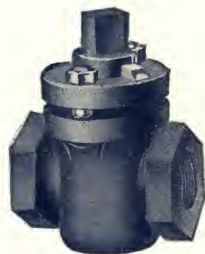


PLATE A

SCREW ENDS.

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Screw Ends.....	1.30	1.30	1.45	1.60	2.10	2.50	3.50	4.75

Size.....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	.....
Screw Ends.....	7.00	12.00	18.00	27.00	30.00	45.00	60.00	.....

FLANGE ENDS.

Size.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Flange Ends.....	2.50	3.50	4.75	7.00	12.00	18.00	27.00	30.00	45.00	60.00

EXTRA HEAVY.

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Screw Ends.....	2.40	3.00	3.50	5.00	6.75	10.00	17.00	26.00	38.00	42.00
Flange Ends.....	.....	.....	3.50	5.00	6.75	10.00	17.00	26.00	38.00	42.00

BRASS COCKS.

VULCANIZED ASBESTOS PACKED

Size..Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Screw Ends..	3.35	3.35	3.35	4.20	5.60	8.00	10.35	16.00	26.50	37.50	50.50	64.00
Flange Ends	.....	.....	.....	.....	10.50	12.50	14.50	26.00	38.00	49.00	69.50	90.00

EXTRA HEAVY.

Size..Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Screw Ends..	3.75	3.75	3.75	4.75	6.30	9.00	11.60	18.00	30.00	42.00	66.00	82.50
Flange Ends	.....	.....	.....	.....	12.00	15.00	17.00	29.00	42.00	60.00	76.50	93.00

GAS SERVICE AND METER COCKS



PLATE A
GAS SERVICE COCK, FLAT HEAD



PLATE B
GAS SERVICE COCK, T HANDLE



PLATE C
GAS METER COCK



PLATE D
UNION METER COCK

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Gas Service Cocks, Square or Flat Head.....Each	.75	.85	.95	1.15	1.50	2.25	3.10	5.00	11.00	16.00
Gas Service Cocks, T Handle.....Each	.75	.85	.95	1.15	1.50	2.25	3.10	5.00	11.00	16.00
Gas Service Cocks, Male and Female.....Each			1.30	1.40	1.95	3.00	4.25	6.00		
Gas Service Cocks, with Check.....Each	.90	1.00	1.10	1.35	1.70	2.50				
Gas Meter Cocks.....Each			1.30	1.40	1.95	3.00	4.25	6.00		
Gas Meter Cocks, with Check.....Each			1.45	1.60	2.15	3.25				
Gas Union Meter Cocks.....Each			1.40	1.55	2.20	3.40	5.00	7.00		
Gas Service Cocks, Extra Heavy.....Each			1.15	1.50	2.10	3.20	4.10	6.85		

LOCK GAS SERVICE COCKS



PLATE E

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Lock Gas Service Cocks.....Each	1.30	1.60	2.10	3.50	5.09	7.00
Lock Gas Meter Cocks.....Each	1.40	1.75	2.30	3.85	5.50	7.75
Lock Gas Union Meter Cocks.....Each	1.50	1.80	2.50	4.00	5.50	8.00

STANDARD BRASS STEAM COCKS



PLATE A
SQUARE HEAD



PLATE B
FLAT HEAD



PLATE C
THREE-WAY



PLATE D
FLANGED

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Square or Flat Heads.....	.85	1.00	1.25	1.70	2.35	3.70	4.85
Male and Female, Sq. or Fl. Heads.....	1.35	1.45	2.00	2.50	3.00	5.35	6.75
Both Ends Male, Sq. or Fl. Heads.....	1.75	1.90	2.50	3.25	3.50	6.75	8.25
With Check, Square or Flat Heads.....	1.00	1.15	1.40	1.90	2.55	3.95	5.15
Three-Way.....	2.30	2.50	3.00	3.75	5.75	7.75	7.15
Three-Way, with Check.....		2.65	3.25	4.00	6.00	9.70	7.50
Flanged, Square or Flat Heads.....			5.50	7.30			
Size.....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Square or Flat Heads.....	7.30	14.50	22.50	38.50	50.00	125.00	225.00
Male and Female, Sq. or Fl. Heads.....	9.85	17.50	25.75				
Both Ends Male, Sq. or Fl. Heads.....	12.00	20.00	29.00				
With Check, Square or Flat Heads.....	7.65	15.00	23.25				
Three-Way.....	11.00	18.75	26.00	50.00	70.00		
Three-Way, with Check.....	11.35	19.25	26.75				
Flanged, Square or Flat Heads.....	18.00	27.50	43.00	62.00	84.00	150.00	275.00

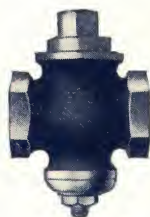


PLATE E

EXTRA HEAVY BRASS STEAM COCKS

Size....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Screwed.....	1.30	1.50	2.00	2.85	4.00	6.75	8.50
Flanged.....			6.50	7.75	10.00	14.25	17.25
Size....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Screwed.....	13.50	25.00	37.00	54.00	75.00	150.00	250.00
Flanged.....	27.00	41.00	63.00	84.00	120.00	190.00	300.00



PLATE F

STANDARD ACID (AJAX) METAL COCKS

Size....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Sq. or Fl. Head							
Screwed.....	.85	1.00	1.25	1.70	2.35	3.70	4.85
Flanged.....				5.50	7.30	9.70	11.75
Size....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Sq. or Fl. Head							
Screwed.....	7.30	14.50	22.50	38.50	50.00	125.00	225.00
Flanged.....	18.00	27.50	43.00	62.00	84.00	150.00	275.00

AIR COCKS

T HANDLES

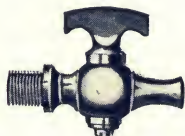


PLATE A

No.....	6	7	8	9
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price.....	.40	.45	.50	.60



PLATE B

No.....	18	19	20	21
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price.....	.55	.65	.75	.90



PLATE C

No.....	26	27	28	33
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price, S. T....	.70	.80	.90	1.00
Price, D. T....	.80	1.00	1.10	1.35



PLATE D

No.....	37	38	39
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Price.....	.65	.70	.85

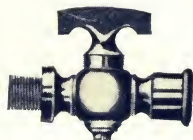


PLATE E

No.....	40	41	42
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Price.....	.75	.80	.90



AIR COCKS LEVER HANDLE



PLATE A

No.....	12	13	14	15
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price.....	.55	.60	.65	.75

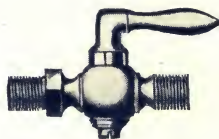


PLATE B

No.....	22	23	24	25
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price.....	.70	.80	.90	1.05

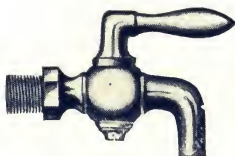


PLATE C

No.....	29	30	31	32
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price, S. T....	.85	.95	1.05	1.15
Price, D. T....	.95	1.15	1.25	1.50

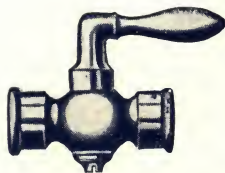


PLATE D

No.....	43	44	45
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Price.....	.80	.85	1.00

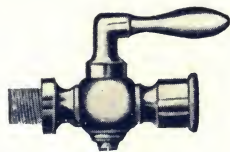


PLATE E

No.....	46	47	48
Size....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Price.....	.90	.95	1.05

BIBB AIR COCKS

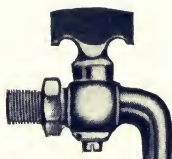


PLATE A
SINGLE THREAD, TEE HANDLE

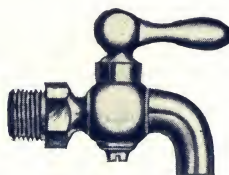


PLATE B
SINGLE THREAD, LEVER HANDLE

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Single Thread, T Handle.....	.70	.80	.90	1.05
Double Thread, T Handle.....	.80	1.00	1.10	1.35
Single Thread, Lever Handle.....	.85	.95	1.05	1.15
Double Thread, Lever Handle.....	.95	1.15	1.25	1.50

CYLINDER COCKS

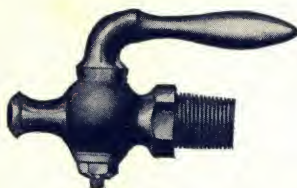


PLATE C
LEVER HANDLE

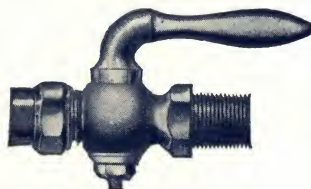


PLATE D
LEVER HANDLE, WITH UNION

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Cylinder Cock.....	1.00	1.15	1.65	2.40
Cylinder Cock with Union.....	1.75	2.00	2.50	3.75

BIBB CYLINDER COCKS

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Single Thread.....	1.15	1.30	1.85	2.60
Double.....	1.25	1.50	2.10	2.75



COMPRESSION GAUGE COCKS.



PLATE A
WOOD WHEEL.



PLATE B
WOOD WHEEL, WITH STUFFING BOX

Size.....	Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Wood wheel Gauge Cock, no Stuffing Box, Standard.....				1.10	1.20	1.35
Wood Wheel Gauge Cock, no Stuffing Box, Light Pattern.....				.95	1.00	1.25
Wood Wheel Gauge Cock, with Stuffing Box, Standard.....				1.35	1.50	1.70
Wood Wheel Gauge Cock, with Loose Seat.....				1.50	2.00	2.25
Wood Wheel Gauge Cock, with Stuffing Box, Light Pattern.....				1.20	1.30	1.45
Steam Gauge Cocks, with Union Tee Handles.....		1.75				

STEAM GAUGE COCKS.

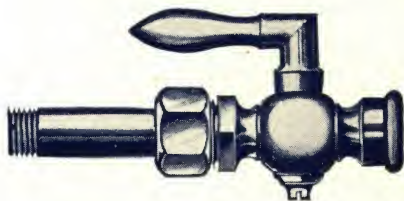


PLATE C
LEVER HANDLE, WITH UNION.



PLATE D
TEE HANDLE, FEMALE.

Size.....	Inches	$\frac{1}{4}$
Male and Female.....		.95
Female.....		.95
Tee Handle and with Union.....		1.75
Lever Handle and with Union.....		1.90

WATER GAUGES, STEAM METAL.



PLATE A
FOR EXPANSION TANK.

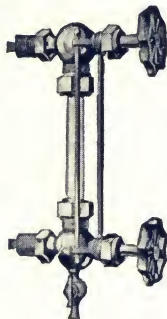


PLATE B
ROUGH BODY, IRON WHEEL.

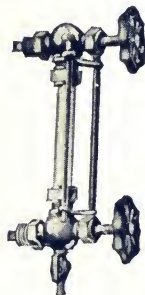


PLATE C
FINISHED BODY. IRON WHEEL

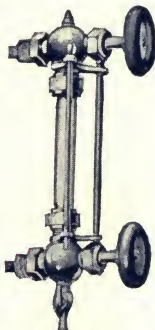


PLATE D
FINISHED BODY. WOOD
WHEEL.

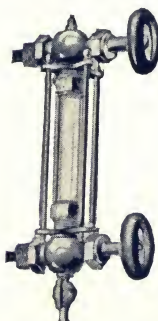


PLATE E
ROUND BODY FINISHED.
FOUR GUARDS.

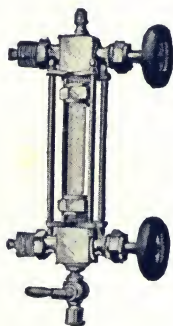


PLATE F
SQUARE BODY FINISHED.
FOUR GUARDS.

[illegible]

SCOTCH GAUGE GLASSES



PLATE A

External Diameter....Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Length, 10 inches.....	3.00	3.00	3.60	5.04	6.12
Length, 11 inches.....	3.24	3.24	3.96	5.64	6.72
Length, 12 inches.....	3.60	3.60	4.32	6.12	7.32
Length, 13 inches.....	3.84	3.84	4.80	6.60	7.92
Length, 14 inches.....	4.20	4.20	5.16	7.08	8.52
Length, 15 inches.....	4.44	4.44	5.52	7.56	9.12
Length, 16 inches.....	4.80	4.80	5.88	8.16	9.72
Length, 17 inches.....	5.04	5.04	6.24	8.64	10.32
Length, 18 inches.....	5.40	5.40	6.60	9.12	10.92
Length, 19 inches.....	5.64	5.64	7.08	9.60	11.52
Length, 20 inches.....	6.00	6.00	7.44	10.20	12.12
Length, 22 inches.....	6.60	6.60	8.16	11.16	13.44
Length, 24 inches.....	7.20	7.20	8.88	12.12	14.64
Length, 30 inches.....	9.00	9.00	11.16	15.24	18.24
Length, 36 inches.....	10.80	10.80	13.44	18.24	21.96
Length, 48 inches.....	14.52	14.52	18.00	24.36	29.16
Length, 60 inches.....	18.12	18.12	22.56	30.48	36.48
Length, 72 inches.....	21.84	21.84	27.12	36.48	43.80

Lengths over 24 inches and all 1-inch glasses, special discount.



PLATE B



PLATE C

Chesterton Gauge Glass Cutter, Each, 2.00 | Gauge Glass Cutter.....Each, 1.00



PLATE D

Simplex Gauge Glass Cutter.....Each, .50

RUBBER GAUGE GLASS GASKETS

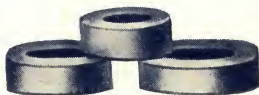


PLATE E

GAUGE GLASS PRESERVERS



PLATE F

Sizes: $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$Per Dozen, .60 | Packed 1 dozen in each box. Per Doz., .60

PLAIN CYLINDER LUBRICATORS.



PLATE A
WITH DRAIN STEM.

STEAM CHEST OILERS. WITHOUT DRAIN STEM

No.....	80	81	82	83	84
Diameter.....Inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
Pipe Thread.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
Without Tube or Drain.....Each	2.00	2.20	2.40	2.60	2.90

No.....	85	86	87	88	.....
Diameter.....Inches	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	.....
Pipe Thread.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	.....
Without Tube or Drain.....Each	3.25	3.75	4.75	7.00	.....

WITH DRAIN STEM

No.....	90	91	92	93	94
Diameter.....Inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
Pipe Thread.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
With Tube and Drain.....Each	3.00	3.20	3.40	3.60	3.90

No.....	95	96	97	98	.....
Diameter.....Inches	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	.....
Pipe Thread.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	.....
With Tube and Drain..... Each	4.25	4.75	5.75	8.00	.....

POWELL SIGHT UP-FEED LUBRICATORS.

SINGLE CONNECTION

DOUBLE CONNECTION

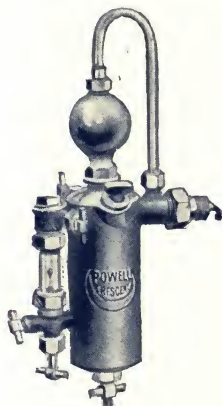


PLATE A

CRESCENT SIGHT UP-FEED LUBRICATOR

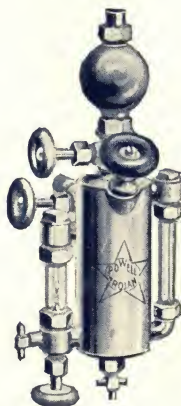


PLATE B

TROJAN SIGHT UP-FEED LUBRICATOR

POWELL CRESCENT SIGHT UP-FEED LUBRICATORS.

Capacity.....	$\frac{1}{4}$ pt.	$\frac{1}{2}$ pt.	$\frac{1}{2}$ pt.	$\frac{3}{4}$ pt.	1 pt.	$1\frac{1}{2}$ pt.	1 qt.
Attach Shank, Pipe Thread... In.	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Glass..... In.	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$
Semi-finished..... Each	4.50	5.00	5.50	6.75	7.75	9.75	10.50
Semi-finished and Plated... Each	5.00	5.75	6.25	7.50	8.50	11.00	11.75
Polished all over..... Each	5.25	5.75	6.25	7.50	8.50	10.75	12.00
Polished all over & Plated.. Each	5.75	6.50	7.00	8.25	9.25	12.00	13.25

POWELL TROJAN SIGHT UP-FEED LUBRICATORS.

Capacity.....	$\frac{1}{8}$ pt.	$\frac{1}{2}$ pt.	$\frac{3}{4}$ pt.	1 pt.	$1\frac{1}{2}$ pt.	1 qt.	$\frac{1}{2}$ gal.	1 gal.
Size of Shank..... In.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Index Glass..... In.	$\frac{1}{2} \times 2\frac{3}{4}$	$\frac{5}{8} \times 3\frac{3}{4}$	$\frac{5}{8} \times 4\frac{1}{4}$	$\frac{5}{8} \times 4\frac{1}{2}$	$\frac{5}{8} \times 4\frac{1}{2}$	$\frac{5}{8} \times 5$	$\frac{5}{8} \times 6\frac{1}{4}$	$\frac{3}{4} \times 9$
Sight-Feed Glass... In.	$\frac{5}{8} \times 2\frac{1}{4}$	$\frac{3}{4} \times 2\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 3\frac{1}{4}$	$\frac{3}{4} \times 5\frac{1}{2}$
Polished..... Each	6.00	6.50	7.75	9.00	11.00	12.00	17.00	21.25
Nickel Plated..... Each	6.50	7.25	8.50	9.75	12.00	13.25	18.50	23.25



PLAIN BRASS OIL CUPS



PLATE A

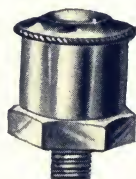


PLATE B

No.....	00	0	1	2	3	4	5	6	7	8	9	10	11
Outside Diameter Inches	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Shank Pipe Thread.....	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Plain Fin'd Brass..Each	.25	.30	.35	.40	.50	.60	.90	1.25	1.75	2.25	2.75	3.50	4.50
Locomotive Patt'n, Fin- ished Brass.....Each	.30	.35	.40	.50	.60	.75	1.00	1.50	2.00	2.50	3.00	4.50	5.00
Add to List for Brass Tubes.....	.10	.10	.10	.10	.15	.15	.15	.15	.15	.20	.20	.25	.25

BRASS OIL CUPS



PLATE C

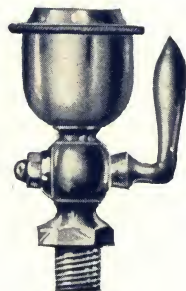


PLATE D

No.....	0	1	2	3	4	5	6	$6\frac{1}{2}$	7	8	9	10	11
Outside Diam Inches	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
Shank Pipe Thread..	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Fin. Br. with Lever Handle Cock..Each	.90	1.00	1.10	1.35	1.60	2.20	2.75	3.00	3.25	4.00	5.00	...	...
Fin. Br. with Hinged Lid.....Each	...	.70	.85	...	1.20	1.60	2.10	2.50	2.70	...	...	...	...
Add to List for Brass Tubes.....	.10	.10	.10	.15	.15	.15	.15	.15	.15	.20	.20	.25	.25

POWELL PLAIN STEAM WHISTLES.



PLATE A
ALL BRASS



PLATE B
ADJUSTABLE LEVER VALVE

Diameter of Bell... In.	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	5	6	8
Pipe Connection... In.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3
Plate A.....	2.20	2.75	3.00	4.35	5.25	7.25	9.50	12.00	19.00	24.00	70.00
Plate B.....	3.10	3.75	4.00	5.50	6.50	8.50	11.50	15.00	22.50	33.00	95.00
Iron Base, no Valve.....	.....	.....	.....	.....	.....	5.50	7.25	10.00	16.00	23.00	55.00

POWELL SINGLE BELL CHIME WHISTLES.



PLATE C
ALL BRASS



PLATE D
ALL BRASS, WITH ADJUSTABLE VALVE

Diameter of Bell..... In.	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
Pipe Connection..... In.	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2
Plate C.....	4.50	5.00	7.00	8.00	11.00	14.00	22.00	38.00	85.00
Plate D.....	6.00	7.00	9.00	11.00	15.00	18.00	28.00	42.00	100.00
Locomotive Style.....	.....	.....	.....	.....	.....	18.00	28.00	42.00	.....

PLAIN WHISTLE VALVES

Pipe Connection.... In.	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Plate G..... Each	2.00	2.00	2.50	3.00	3.50	5.00	6.00	9.00

POP SAFETY VALVES



PLATE A

	Plain	Perf. Caps
$\frac{1}{2}$ inch, for Boilers below 3 H.P.	8.00	9.75
$\frac{3}{4}$ inch, for Boilers from 3 to 5 H.P.	10.00	12.00
1 inch, for Boilers from 5 to 10 H.P.	12.00	14.25
$1\frac{1}{4}$ inch, for Boilers from 10 to 20 H.P.	15.00	17.50
$1\frac{1}{2}$ inch, for Boilers from 20 to 30 H.P.	20.00	22.75
2 inch, for Boilers from 30 to 40 H.P.	30.00	33.00

In ordering, state pressure to be carried.

FOR STATIONARY AND MARINE BOILERS



PLATE B
SCREWED BASE



PLATE C
FLANGED BASE

Size, Ins.	Style of Base	Diameter of Side Outlet, Screwed	Height of Valves Ins.	Capacity, Horse Power	Regular		Nickel-Seated	
					Plain	Lock- up	Plain	Lock- up
2	Screwed	2 ins.	12 $\frac{1}{4}$	25 to 40	30.00	35.00	38.00	43.00
2 $\frac{1}{2}$	Sc. or 9 in. Flge.	2 $\frac{1}{2}$ ins.	13	40 to 75	50.00	55.00	60.00	65.00
3	Sc. or 9 in. Flge.	3 ins.	14	75 to 100	65.00	75.00	77.00	87.00
3 $\frac{1}{2}$	Sc. or 10 in. Flge.	3 $\frac{1}{2}$ ins.	16 $\frac{1}{2}$	100 to 125	80.00	90.00	94.00	104.00
4	Sc. or 11 in. Flge.	4 ins.	18 $\frac{1}{2}$	125 to 150	100.00	110.00	116.00	126.00
4 $\frac{1}{2}$	Sc. or 11 in. Flge.	9 $\frac{1}{2}$ in. Flge.	22 $\frac{1}{2}$	150 to 175	125.00	135.00	145.00	155.00
5	Sc. or 12 in. Flge.	9 in. Flge.	25 $\frac{1}{2}$	175 to 200	160.00	170.00	185.00	195.00
5 $\frac{1}{2}$	Sc. or 12 in. Flge.	10 in. Flge.	25 $\frac{1}{2}$	200 and upwards	220.00	235.00	260.00	285.00
6	Sc. or 14 in. Flge.	10 in. Flge.	27		250.00	270.00	290.00	310.00

In ordering state pressure to be carried. If flange is desired, state diameter.

POWELL AUTOMATIC INJECTOR.



PLATE A

Size No.	Price	Pipe Con- nections	Capacity per Hour 3 ft. Lift, 80 to 95 lbs. Steam Pressure Gallons		HORSE POWER	
			Maximum	Minimum	Based on Ordinary Tubular Boilers	Based on 30 Lbs. Water per. H. P. per Hour
2	16.00	$\frac{3}{8}$	80	55	4 to 8	6 to 12
2 $\frac{1}{2}$	18.00	$\frac{1}{2}$	140	70	8 to 16	10 to 20
3	20.00	$\frac{1}{2}$	180	100	12 to 22	15 to 30
3 $\frac{1}{2}$	25.00	$\frac{3}{4}$	260	135	17 to 32	22 to 45
4	30.00	$\frac{3}{4}$	360	170	20 to 45	25 to 60
4 $\frac{1}{2}$	40.00	1	480	295	40 to 65	45 to 80
5	45.00	1	600	325	45 to 80	50 to 100
6	55.00	$1 \frac{1}{4}$	800	425	50 to 100	60 to 135
7	60.00	$1 \frac{1}{4}$	1,000	520	75 to 135	85 to 165
8	75.00	$1 \frac{1}{2}$	1,400	775	100 to 180	125 to 235
9	90.00	$1 \frac{1}{2}$	1,900	875	115 to 255	150 to 320
10	110.00	2	2,400	1,300	160 to 320	200 to 400
11	125.00	2	3,000	1,600	200 to 400	250 to 500



METROPOLITAN AUTOMATIC INJECTORS.

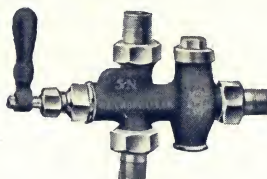


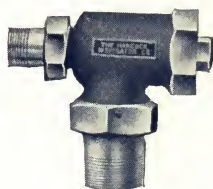
PLATE A

Sizes	Prices, Model N	Size of all Pipe Connections	Size Overflow or Waste Pipe	Capacity with 80 lbs. Steam Pres- sure 2-ft. Lift	Horse Power for the Ordinary Type of Boiler and Engine	Horse Power on a Basis of 30 lbs Evaporations per H.P. per Hr.
2	15.00	3/8	3/4	60 gals.	4 to 6	5 to 8
3	16.00	3/8	3/4	80 gals.	6 to 8	8 to 12
3 1/2	18.00	1/2	3/4	120 gals.	8 to 15	12 to 20
4	20.00	1/2	3/4	165 gals.	15 to 20	20 to 28
5	25.00	3/4	1	250 gals.	20 to 30	28 to 40
6	30.00	3/4	1	350 gals.	30 to 45	40 to 55
7	40.00	1	1 1/4	500 gals.	45 to 65	55 to 80
8	45.00	1	1 1/2	600 gals.	65 to 80	80 to 110
9	55.00	1 1/4	1 1/2	800 gals.	80 to 100	110 to 145
10	60.00	1 1/4	1 1/2	1000 gals.	100 to 130	145 to 180
11	75.00	1 1/2	2	1300 gals.	130 to 170	180 to 235
12	90.00	1 1/2	2	1750 gals.	170 to 230	235 to 300
13	110.00	2	2 1/2	2300 gals.	230 to 300	300 to 400
14	125.00	2	2 1/2	2850 gals.	300 to 375	400 to 500



PLATE B

Sizes	Prices, Model G	Size of all Pipe Connections	Size Overflow or Waste Pipe	Capacity with 80 lbs. Steam Pres- sure 2-ft. Lift	Horse Power for the Ordinary Type of Boiler and Engine	Horse Power on a Basis of 30 lbs Evaporations per H.P. per Hr.
2 1/2	18.00	1 1/2	3/4	120 gals.	8 to 15	12 to 20
4 1/2	20.00	1 1/2	3/4	165 gals.	15 to 20	20 to 28
5 1/2	25.00	1 1/2	3/4	250 gals.	20 to 30	28 to 40
6 1/2	30.00	1 1/2	3/4	350 gals.	30 to 45	40 to 55
7 1/2	40.00	1	3/4	500 gals.	45 to 65	55 to 80
8 1/2	45.00	1	3/4	600 gals.	65 to 80	80 to 110
9 1/2	55.00	1 1/4	1	800 gals.	80 to 100	110 to 145
10 1/2	60.00	1 1/4	1	1000 gals.	100 to 180	145 to 180
11 1/2	75.00	1 1/2	1 1/4	1300 gals.	130 to 170	180 to 235
12 1/2	90.00	1 1/2	1 1/4	1750 gals.	170 to 230	235 to 300
13 1/2	110.00	2	1 1/2	2300 gals.	230 to 300	300 to 400
14 1/2	125.00	2	1 1/2	2850 gals.	300 to 375	400 to 500
15 1/2	150.00	2 1/2	2	3500 gals.	375 to 500	500 to 650
16 1/2	200.00	2 1/2	2	4200 gals.	500 to 650	650 to 800
17 1/2	250.00	3	2 1/2	4700 gals.	650 to 775	800 to 950
18 1/2	300.00	3	2 1/2	5500 gals.	775 to 950	950 to 1200


PLATE A

THE HANCOCK EJECTORS.

THIS LIST ADOPTED MAY 1ST, 1900

Size	Price	PIPE CONNECTIONS		Capacity per Hour with 60 Lbs. Steam Pressure
		Steam	Suction and Delivery	
No. 1, Brass.....	8.00	1/4 inch	1/2 inch	244 gals.
No. 2, Brass.....	10.00	3/8 inch	3/4 inch	550 gals.
No. 3, Brass.....	15.00	1/2 inch	1 inch	977 gals.
No. 4, Brass.....	20.00	3/4 inch	1 1/4 inch	1,525 gals.
No. 5, Iron.....	25.00	3/4 inch	1 1/2 inch	2,200 gals.
No. 6, Iron.....	35.00	1 inch	2 inch	3,900 gals.
No. 7, Iron.....	45.00	1 1/4 inch	2 1/2 inch	6,000 gals.
No. 8, Iron.....	55.00	1 1/2 inch	3 inch	8,800 gals.
No. 9, Iron.....	70.00	2 inch	4 inch	15,600 gals.
No. 10, Iron.....	110.00	2 1/2 inch	5 inch	24,300 gals.
No. 11, Iron.....	160.00	2 1/2 inch	6 inch	35,000 gals.

Sizes 1, 2, 3 and 4 are made entirely of brass. Sizes 5, 6 and 7 have iron bodies and brass unions for steam and suction connections. Sizes 8, 9, 10 and 11 have iron bodies with brass unions for steam connection only. Sizes 5, 6, 7, 8, 9, 10 and 11 made entirely of brass. Larger sizes and Ejectors for handling corrosive liquids furnished on special order.

SPECIAL—All Iron Ejectors made to order.


PLATE B

THE H-D EJECTORS.

MODEL C

PRICE LIST

THIS LIST ADOPTED JUNE 1ST, 1898

Size	Price Model C	PIPE CONNECTIONS		Capacity per Hour with 50 Lbs. Steam Pressure
		Steam	Suction and Delivery	
No. 1, Brass.....	8.00	3/8 inch	1/2 inch	250 gals.
No. 2, Brass.....	10.00	1/2 inch	3/4 inch	500 gals.
No. 3, Brass.....	15.00	3/4 inch	1 inch	960 gals.
No. 4, Brass.....	20.00	1 inch	1 1/4 inch	1,300 gals.
No. 5, Brass.....	25.00	1 1/4 inch	1 1/2 inch	2,000 gals.
No. 6, Iron.....	35.00	1 1/4 inch	2 inch	4,000 gals.
No. 7, Iron.....	45.00	1 1/2 inch	2 1/2 inch	8,000 gals.
No. 8, Iron.....	55.00	2 inch	3 inch	11,000 gals.
No. 9, Iron.....	70.00	2 1/2 inch	4 inch	15,000 gals.

Size No. 6 has iron body, balance brass. Sizes Nos. 7 and 8 have iron bodies and delivery connections, balance brass. Size No. 9 has brass tubes, balance iron. Size No. 10 has iron body, brass tubes, all connections flanged. Sizes Nos. 6, 7, 8, 9 and 10 made entirely of brass to order.

SPECIAL—All Iron Ejectors made to order.

SINGLE SPRING BOURDON PRESSURE GAUGES.

WITH IMPROVED INDEPENDENT MOVEMENT.

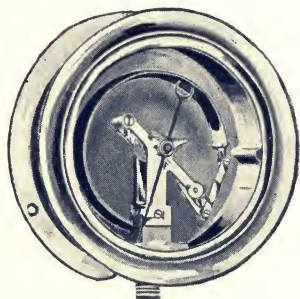


PLATE A

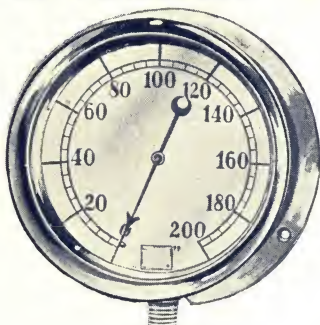


PLATE B

All Gauges of 2 and 2½-inch dial have ⅜-inch male pipe thread connection; 3 to 5 inch dial inclusive, ¼-inch male pipe thread connection; 5½ to 24-inch dial inclusive, ¼-inch female pipe thread connection. If purchasers desire other size connection, kindly mention when ordering.

A siphon should always be used with this gauge, when indicating steam pressure. For Pressures not Exceeding 1,000 lbs. per Square Inch.

SPRINGS OF SOLID DRAWN TUBE.—PRICE, INCLUDING COCK.

Size Dial inches	Iron Case, Brass Ring	Iron Case, N.P. or Sil. Met. Ring	Brass Case	N. P. or Silver Met. Case	Brass Deep Case O. G. or Oct. Ring	N.P. or Sil- ver Metal Deep Case	Alumi- num Case
24	200.00	206.00	260.00	280.00	.....	.....	260.00
20	135.00	140.00	190.00	205.00	.....	.....	190.00
18	110.00	113.00	155.00	167.50	.....	.....	155.00
16	90.00	92.00	125.00	135.00	.....	.....	125.00
14	75.00	76.50	100.00	107.50	.....	.....	100.00
12	50.00	51.50	75.00	79.00	80.00	84.00	75.00
10	32.00	33.00	40.00	43.00	44.00	47.00	40.00
8½	22.00	22.75	30.00	32.50	33.50	36.00	30.00
6¾	16.00	16.60	20.00	22.00	23.00	25.00	20.00
6	13.00	13.50	16.00	17.50	18.50	20.00	16.00
5½	10.00	10.25	12.00	13.25	13.75	15.00	12.00
5	8.00	8.20	11.00	12.00	12.50	13.50	11.00
4½	8.00	8.20	10.00	11.00	11.50	12.50	10.00
3½	7.00	7.18	9.00	9.75	10.25	11.00	9.00
3	6.00	6.15	8.00	8.60	9.25	9.75	8.00
2½	6.00	6.15	8.00	8.60	9.25	9.75	8.00
2	6.00	6.15	8.00	8.60	9.25	9.75	8.00

Gauges smaller than 2 inch size sold at 2 inch list and discount.
Iron case gauges with spun brass jacket sold at brass case list and discount.


PLATE A

ALTITUDE GAUGES.

**SPRINGS OF SOLID DRAWN OR
BRAZED TUBE.**

PRICES, INCLUDING COCKS.

Size Dial inches	Iron Case, Japanned	Iron Case, N. P. Ring	Brass Case	N. P. Case	Brass Deep Case, O. G. or Oct. Ring	N. P. Deep Case, O. G. or Oct. Ring
12	60.00	61.50	80.00	84.00	85.00	89.00
10	40.00	41.00	50.00	53.00	54.00	57.00
8 1/2	30.00	30.75	40.00	42.50	43.50	46.00
6 3/4	20.00	20.60	25.00	27.00	28.00	30.00
6	16.00	16.50	20.00	21.50	23.00	24.50
5 1/2	14.00	14.25	16.00	17.25	18.50	19.75
5	12.00	12.20	14.00	15.00	16.00	17.00
4 1/2	12.00	12.20	14.00	15.00	16.00	17.00
4	12.00	12.20	14.00	15.00	16.00	17.00
3 1/2	10.00	10.18	12.00	12.75	13.75	14.50

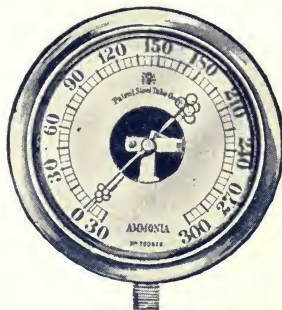
AMMONIA GAUGES.

WITH STEEL TUBE SPRING.

The White Enameled Dials used with these Gauges have large figures, and the lettering is done in the most artistic manner.

These Gauges are made for any required pressure.

PRICES, NOT INCLUDING COCKS.


PLATE B

Size	Iron Case and Ring	Iron Case, N. P. Ring
8 or 8 1/2 inch Dial, Pressure and Vacuum or Pressure only..	45.00	45.75
6 3/4 inch Dial, Pressure and Vacuum or Pressure only..	40.00	40.60
6 inch Dial, Pressure and Vacuum or Pressure only..	35.00	35.50
5 1/2 inch Dial, Pressure and Vacuum or Pressure only..	30.00	30.50
5 inch Dial, Pressure and Vacuum or Pressure only..	30.00	30.50
4 1/2 inch Dial, Pressure and Vacuum or Pressure only..	25.00	25.50
3 1/2 inch Dial, Pressure and Vacuum or Pressure only..	25.00	25.50

JENKINS DISC RADIATOR VALVES. UNION RADIATOR VALVES.

WITH WOOD WHEEL.
AND IMPROVED GROUND MALE UNION

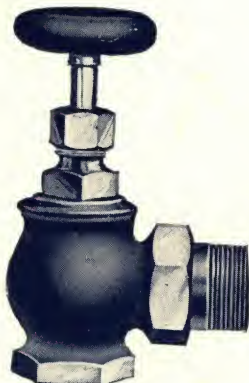


PLATE A

These valves are made with male unions only. Threads right hand on Union, right hand on bottom.

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Rough Body, Finished Trimmings.	2.75	3.50	4.30
Finished All Over.....	3.20	4.00	4.80
Rough Body, Plated Trimmings...	3.05	3.75	4.65
Rough Body, Plated All Over.....	3.15	3.80	4.75
Finished and Plated All Over.....	3.60	4.25	5.25

Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings.	5.85	7.75	12.60
Finished All Over.....	6.40	8.75	13.85
Rough Body, Plated Trimmings...	6.25	8.00	12.85
Rough Body, Plated All Over.....	6.40	8.10	13.10
Finished and Plated All Over.....	7.00	9.25	14.35

FEMALE RADIATOR VALVES. WITH WOOD WHEEL.

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Rough Body, Finished Trimmings.	2.00	2.50	3.20
Finished All Over.....	2.50	3.00	3.75
Rough Body, Plated Trimmings...	2.30	2.70	3.50
Rough Body, Plated All Over.....	2.40	2.85	3.65
Finished and Plated All Over.....	2.90	3.10	4.00

Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings.	4.50	6.25	10.50
Finished All Over.....	5.25	7.25	11.75
Rough Body, Plated Trimmings...	4.75	6.50	10.75
Rough Body, Plated All Over.....	4.90	6.75	11.00
Finished and Plated All Over.....	5.40	7.75	12.25



PLATE

These Valves are tapped right hand on bottom, left hand on side, unless otherwise ordered.

Lock Shield same price as Wood Wheel Valve; Keys extra.

JENKINS DISC RADIATOR VALVES.

UNION CORNER RADIATOR VALVES.

WITH WOOD WHEEL AND IMPROVED
GROUND MALE UNION.



PLATE A

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$
Rough Body, Finished Trimmings..	3.85	4.75	6.45
Finished All Over.....	4.50	5.50	7.20
Rough Body, Plated Trimmings...	4.15	5.15	6.90
Rough Body, Plated All Over.....	4.20	5.25	7.05
Finished and Plated All Over.....	4.85	6.00	7.80

Size.....Inches	$1\frac{1}{2}$	2	
Rough Body, Finished Trimmings..	8.55	13.85	
Finished All Over.....	9.55	15.35	
Rough Body, Plated Trimmings...	8.80	14.15	
Rough Body, Plated All Over.....	8.95	14.45	
Finished and Plated All Over.....	9.95	15.95	

FEMALE CORNER RADIATOR VALVES.

WITH WOOD WHEEL.

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings..	2.75	3.50	5.00	7.00	11.55
Finished All Over.....	3.40	4.25	5.75	8.00	13.05
Rough Body, Plated Trimmings...	3.00	3.85	5.25	7.25	11.85
Rough Body, Plated All Over.....	3.15	4.00	5.50	7.50	12.10
Finished and Plated All Over.....	3.80	4.75	6.25	8.50	13.60

CORNER RADIATOR VALVES, REGULAR PATTERN

WITH MALE OR FEMALE UNIONS,
RIGHT OR LEFT HAND OUTLET.

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	2
Rough Body, Finished Trimmings..	3.05	3.85	4.75
Finished All Over.....	3.50	4.50	5.50
Rough Body, Plated Trimmings...	3.35	4.15	5.15
Rough Body, Plated All Over.....	3.45	4.20	5.25
Finished and Plated All Over.....	3.90	4.85	6.00

Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	
Rough Body, Finished Trimmings..	6.45	8.55	13.85
Finished All Over.....	7.20	9.55	15.35
Rough Body, Plated Trimmings...	6.90	8.80	14.15
Rough Body, Plated All Over.....	7.05	8.95	14.45
Finished and Plated All Over.....	7.80	9.95	15.95

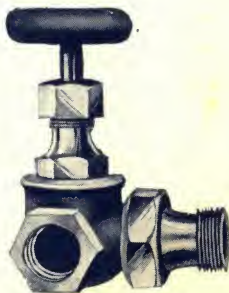


PLATE B

Please state whether Right or Left Hand Valves are required.
On Valves without Union, state whether both threads on right hand or inlet right hand and outlet left hand.

QUICK-OPENING HOT WATER RADIATOR VALVES

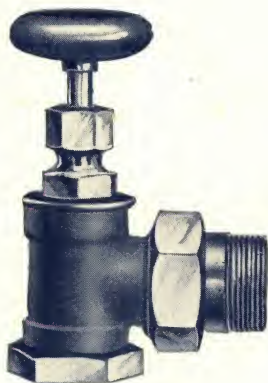


PLATE A

UNION RADIATOR VALVES WITH IMPROVED GROUND UNION

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Wood Wheel					
Rough Body, Fin. Trim.	2.45	3.25	4.50	6.50	10.00
Rough Body, Plated all over.	2.85	3.65	5.05	7.10	10.85
Finished Body.	3.00	3.85	5.25	7.50	11.50
Finished Body, Plated all over.	3.40	4.30	5.80	8.10	12.35

These Valves are made with male unions only, threads right hand on Union, right hand on bottom. Lock Shield same price as Wood Valve. Keys extra.

FEMALE RADIATOR VALVES

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings..	1.60	2.25	3.25	4.50	7.00
Rough Body, Plated all over.....	1.95	2.65	3.70	5.00	7.75
Finished Body.....	2.15	2.85	4.00	5.50	8.50
Finished Body, Plated all over....	2.50	3.25	4.45	6.00	9.25

These Valves are tapped right hand on bottom, left hand on side unless otherwise ordered.

Lock Shield same price as Wood Wheel Valve; Keys extra.



PLATE B

UNION ELBOWS FOR HOT WATER HEATING

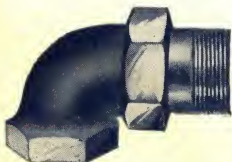


PLATE C

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Plain....	1.50	1.75	2.25	2.95	3.70	6.00
Rough Body, Plated all over.....	1.75	2.00	2.50	3.20	4.00	7.00
Finished all over.....	2.00	2.20	2.75	3.60	4.60	7.50
Fin. and Plated all over.	2.25	2.40	3.00	3.90	4.85	8.50

WOOD AND BRASS WHEELS FOR VALVES



PLATE A. WOOD



PLATE B. BRASS

Size of Valves.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Wood Wheels.....Each	.25	.30	.30	.35	.40	.50
Top and Bottom Plates, Brass.....Each	.25	.30	.30	.35	.35	.40
Top and Bottom Plates, Nickel Plated.....Each	.35	.40	.40	.45	.45	.50
Finished Brass Wheels.....Each	1.25	1.30	1.30	1.60	1.65	1.75
Finished Brass Wheels, Nickel Plated.....Each	1.50	1.55	1.55	1.85	1.90	2.00

RADIATOR VALVES

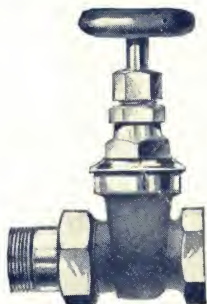


PLATE C
GATE RADIATOR VALVE, WITH UNION,
WOOD WHEEL

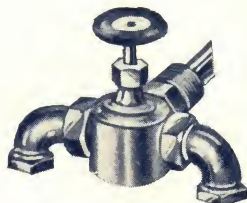


PLATE D
UNIQUE WATER RADIATOR
VALVE

GATE RADIATOR VALVES, WITH UNION

Diameter of Opening.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished Trimmings.....	2.00	2.60	3.75	5.50	6.50	10.50
Nickel Plated all over.....	2.20	2.85	4.00	5.20	7.10	11.25
Finished Trimmings, with Male or Female Union.....	2.75	3.35	4.20	5.25	7.25	11.35
Nickel Plated all over, with Male or Female Union.....	3.10	3.75	4.65	6.10	7.85	12.10

UNIQUE WATER RADIATOR VALVES

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Center of Body to End of Spud.....Inches	2 $\frac{7}{8}$	2 $\frac{7}{8}$	3	3 $\frac{5}{8}$
Inside Dimensions of Couplings to Radiators.....Inches	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$
From Center top opening of Elbows to bottom of Elbows.....Inches	1 $\frac{3}{8}$	1 $\frac{3}{8}$	2	2 $\frac{1}{2}$
Between Centers of bottom Elbow connections.....Inches	5 $\frac{1}{4}$	5 $\frac{3}{4}$	7	7 $\frac{3}{8}$
Spud Diameters.....Inches	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Price.....	4.25	5.40	5.80	7.95

MODEL FLOOR AND CEILING PLATES.

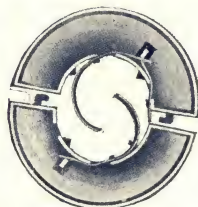


PLATE A

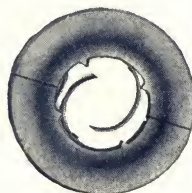


PLATE B

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black.....	.14	.14	.18	.20	.24	.28	.43	.60	.90	1.25
Nickel.....	.25	.25	.28	.32	.35	.38	.52	.75	1.10	1.50

STAMPED STEEL FLOOR AND CEILING PLATES.

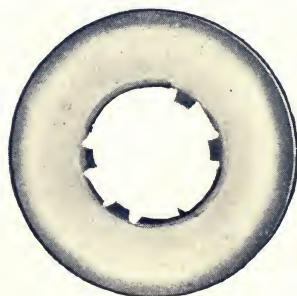


PLATE C

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Plain Steel.....Each	.07	.07	.07	.08	.08	.10
N. P. Steel.....Each	.10	.10	.10	.11	.11	.14
Polished and N. P. Steel...Each	.16	.16	.16	.22	.22	.30

PERFECT AUTOMATIC AIR VALVE.



PLATE A

BALL JOINT ROYAL FLOAT AUTOMATIC AIR VALVE.



PLATE B

No. 1.....	.80
No. 2.....	.60

Price.....	1.00
------------	------

IMPROVED COMPRESSION KEY AIR VALVE.



PLATE C



PLATE D

COMPRESSION WOOD WHEEL AIR VALVE.



PLATE E
NICKEL PLATED.

Threaded for Iron Pipe, Size...In.	$\frac{1}{8}$
Plain.....Each,	.65
Nickeled.....Each,	.70

Threaded for Iron Pipe, Size...In.	$\frac{1}{8}$
Price.....Each,	.70



O. S. DISTRIBUTORS.

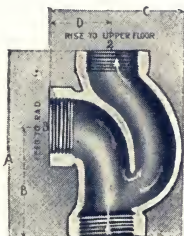


PLATE A



PLATE B

POSITIONS OF TAPPINGS ARE INDICATED BY FIGURES 1, 2, 3.

Insure free, positive, uniform circulation. Save labor, fittings and joints, cutting of floors, beams, etc. Prevent friction; no leaks; keep risers in line.

PRICE LIST AND DIMENSIONS

No.	Tappings, Inches			Dimensions, Inches				List Price, Each
	1	2	3	A	B	C	D	
610	1	x	$3\frac{1}{4}$	x	$3\frac{1}{4}$	3	$2\frac{3}{4}$	.60
611	1	x	$3\frac{1}{4}$	x	$3\frac{1}{4}$	3	$2\frac{3}{4}$	.60
612	1	x	$3\frac{1}{4}$	x	$3\frac{1}{4}$	3	$2\frac{3}{4}$	.60
613	1	x	$3\frac{1}{4}$	x	$3\frac{1}{4}$	3	$2\frac{3}{4}$	.60
614	1	$\frac{1}{4}$	x	$1\frac{1}{4}$	x	$1\frac{1}{4}$	$1\frac{1}{4}$	.80
615	1	$\frac{1}{4}$	x	$1\frac{1}{4}$	x	$1\frac{1}{4}$	$1\frac{1}{4}$	.80
616	1	$\frac{1}{4}$	x	$1\frac{1}{4}$	x	$1\frac{1}{4}$	$1\frac{1}{4}$	.80
617	1	$\frac{1}{4}$	x	$1\frac{1}{4}$	x	$1\frac{1}{4}$	$1\frac{1}{4}$	.80
618	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
619	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
620	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
621	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
622	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
623	1	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	.90
624	2	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	4	$3\frac{1}{4}$	1.20
625	2	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	4	$3\frac{1}{4}$	1.20
626	2	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	5	$4\frac{1}{4}$	1.20
627	2	x	$2\frac{1}{2}$	x	$2\frac{1}{2}$	4	$3\frac{1}{4}$	1.20
628	2	x	$2\frac{1}{2}$	x	$2\frac{1}{2}$	5	$4\frac{1}{4}$	1.20
629	2	x	$2\frac{1}{2}$	x	$2\frac{1}{2}$	5	$4\frac{1}{4}$	1.20
630	2	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	2.00
631	2	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	2.00
632	2	$\frac{1}{2}$	x	$1\frac{1}{2}$	x	$1\frac{1}{2}$	$1\frac{1}{2}$	2.00

THE D. & T. COMBINATION REGULATOR AND CIRCULATOR.

SOMETHING ENTIRELY DIFFERENT FROM ALL OTHERS

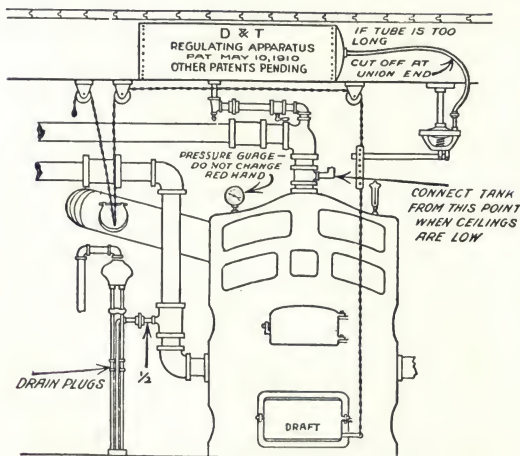


PLATE A

ADVANTAGES OF THE D. & T. SYSTEM

No unsightly expansion tank with the D. & T. System, in the finished part of the building.

No possibility of the overflow pipe becoming clogged with the D. & T. System.

No possibility of the overflow pipe becoming frozen with the D. & T. System.

No sluggish circulation with the D. & T. System.

The D. & T. System is the only complete device on the market that increases the circulation and controls the dampers automatically, without depending on separate regulating or circulating device, or some outside agent for power.

The D. & T. System has proven, after several seasons in use in numerous installations of different character, to be sound in principle, efficient in service, and in every way a desirable acquisition for any heating plant, and is guaranteed by the manufacturers to give perfect satisfaction, or failing in this, to be returnable at purchase price. We will replace any part that wears out in five years.

PRICES ON APPLICATION

ASBESTOS CEMENTS

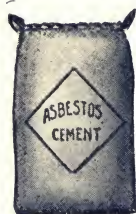


PLATE A

These Cements are absolutely fireproof, good non-conductors, and give general satisfaction. They are made up of Asbestos Fibre, Pulp, Magnesia and other ingredients to make them stick well and finish nicely.

Prices on application.

PRICE LIST OF SECTIONAL PIPE COVERINGS AND FITTINGS.

Size, Inside Diameter Inches	Covering per Lineal Foot	Elbows, Each	Tees, Each	Crosses, Each	Valves, Each
$\frac{1}{2}$	.22	.30	.36	.48	.54
$\frac{3}{4}$	.24	.30	.36	.48	.54
1	.27	.30	.36	.48	.54
$1\frac{1}{4}$	.30	.30	.36	.48	.54
$1\frac{1}{2}$	.33	.30	.36	.48	.54
2	.36	.36	.42	.54	.60
$2\frac{1}{2}$	.40	.42	.48	.60	.78
3	.45	.48	.54	.70	.96
$3\frac{1}{2}$	.50	.54	.60	.80	1.20
4	.60	.60	.75	.95	1.50
$4\frac{1}{2}$	.65	.72	.90	1.10	1.85
5	.70	.90	1.20	1.50	2.25
6	.80	1.30	1.60	2.00	2.80
7	1.00	1.80	2.20	2.80	3.60
8	1.10	2.40	3.00	3.60	4.40
9	1.20	3.00	3.80	4.40	5.30
10	1.30	3.60	4.60	5.20	6.20
12	1.85	....	....	....	....

In order to prevent confusion we have but one price list for our different kinds of Coverings up to and including one inch in thickness.



PLATE A

GALVANIZED CIRCULATING BOILERS.

New York Pattern.			Phila. Hand-Made Pattern.			
Capac. Gal.	Size.	Price.	Size.	Reg.	E. H. or D. Riv.	E. H. & D. Riv.
18	3 x 12	14.50	3 x 12	14.50	17.50	20.50
21	3 1/2 x 12	15.50	3 1/2 x 12	15.50	18.50	22.00
24	4 x 12	15.75	4 x 12	15.75	19.00	22.50
24	3 x 14	19.00	3 x 14	19.00	22.50	26.00
27	4 1/2 x 12	18.50	4 1/2 x 12	18.50	21.00	25.00
28	3 1/2 x 14	20.25	3 1/2 x 14	20.25	24.00	27.50
30	5 x 12	19.00	5 x 12	19.00	22.50	26.00
32	4 x 14	21.00	4 x 14	21.00	24.50	27.50
35	5 x 13	21.00	5 x 13	21.00	24.50	28.00
36	6 x 12	24.50	6 x 12	24.50	29.50	34.50
36	4 1/2 x 14	21.50	4 1/2 x 14	21.50	25.50	29.00
40	5 x 14	24.00	5 x 14	24.00	27.50	31.00
42	4 x 16	26.00	4 x 16	26.00	30.00	34.00
47	4 1/2 x 16	30.00	4 1/2 x 16	30.00	35.00	40.00
48	6 x 14	30.00	6 x 14	30.00	35.00	40.00
52	5 x 16	31.00	5 x 16	31.00	36.00	41.00
53	4 x 18	31.50	4 x 18	31.50	37.00	41.00
63	6 x 16	38.00	6 x 16	38.00	43.00	48.00
66	5 x 18	38.00	5 x 18	36.00	41.00	46.00
79	6 x 18	44.00	6 x 18	44.00	51.00	56.00
82	5 x 20	45.50	5 x 20	45.50	52.00	57.00
98	6 x 20	61.50	6 x 20	54.00	60.00	65.00
100	5 x 22	63.50	5 x 22	54.00	60.00	65.00

GALVANIZED STEEL EXPANSION TANKS.

Capacity, Gallons.	Size, Inches.	Tapped for Gauge, C. to C.	For Glass Length.	Price.
10	12 x 20	13 1/2	12	8.00
12	12 x 24	13 1/2	14	8.50
15	12 x 30	15 1/2	14	9.00
18	12 x 36	19 1/2	18	9.50
20	14 x 30	15 1/2	14	12.50
24	14 x 36	19 1/2	18	13.00
26	16 x 30	15 1/2	14	14.00
32	16 x 36	19 1/2	18	15.00
42	16 x 48	25 1/2	24	16.50
66	18 x 60	25 1/2	24	31.00
82	20 x 60	25 1/2	24	37.00
100	22 x 60	25 1/2	24	51.00
120	24 x 60	25 1/2	24	58.00

Above prices do not include Water Gauge or Brasses.

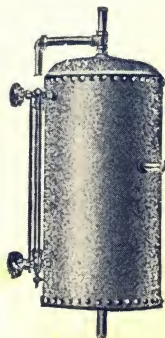


PLATE B

IDEAL EXPANSION TANKS.

Beaded..... 12.50 Embedded Panel... 12.75 Round Cornered.. 12.75

SQUIRES IMPROVED STEAM TRAPS.

**FITTED WITH REGULAR VALVE
AND SEAT.**

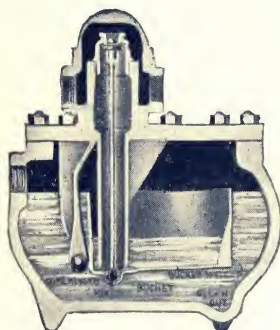


PLATE A

Size Trap	Pipe Connection, Inches	Lineal Ft. of 1 Inch Pipe	Sq. Ft. of Radiation	Lbs. of Water per Hour	Price
A	$\frac{1}{2}$	3900	1300	400	20.00
B	$\frac{3}{4}$	6000	2000	600	22.00
C	1	8400	2800	850	28.00
D	$1\frac{1}{4}$	15600	5200	1600	35.00
E	$1\frac{1}{2}$	24300	8100	2500	50.00
F	2	38700	12900	4000	70.00
G	$2\frac{1}{2}$	98100	32700	10100	100.00

**FITTED WITH UNLIMITED PRESSURE
VALVE MECHANISM.**

Size Trap	Pipe Connection, Inches	Lbs. of Water per Hour	Price
C	1	2700	34.00
D	$1\frac{1}{4}$	3800	42.00
E	$1\frac{1}{2}$	5500	60.00
F	2	10000	84.00
G	$2\frac{1}{2}$	20000	120.00

In ordering, state highest pressure.

ANGELL EMERGENCY STEAM TRAPS.

Size No.	Pipe Connections, Inches	Lbs. Water per Hour	Price
2E	$\frac{3}{4}$	3000	35.00
3E	1	4200	50.00
4E	$1\frac{1}{4}$	6000	60.00
5E	$1\frac{1}{2}$	8000	65.00
6E	2	12000	75.00
6EE	2	26000	90.00
6EEE	2	46000	100.00

Above traps for heavy condensation.

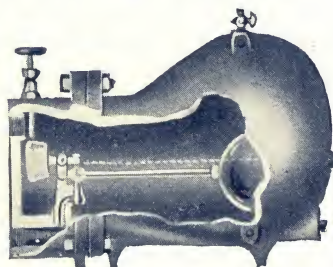


PLATE B

Size No.	Pipe Connections, Inches	Lineal Feet 1-Inch Pipe	Sq. Ft. Radiation	Lbs. Water per Hour	Price
1	$\frac{1}{2}$	4000	1350	800	20.50
2	$\frac{3}{4}$	6300	2100	1300	22.50
3	1	9900	3300	2000	28.00
4	$1\frac{1}{4}$	15000	5000	3000	35.00
5	$1\frac{1}{2}$	21000	7000	4200	50.00
6	2	49800	16600	10000	70.00



ANDERSON STEAM TRAPS.

MODEL D.

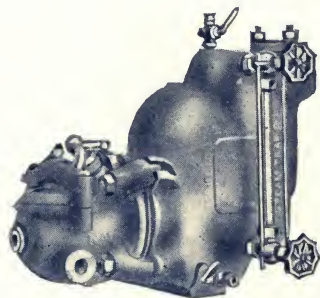


PLATE A

PRICES.

Size Number of Trap.....	1	2	3	4	5	6	7
Size of Pipe Connection.....Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Maximum Discharge of Condensation, per hour.....Pounds	1500	2400	4000	5600	8000	12000	24000
Greatest Number of Square Feet of Surface that should be applied.....	1000	1600	2600	4700	7000	10000	20000
Greatest Number of Lineal Feet of 1-in. Pipe Surface that should be applied.	3000	5000	8000	14000	20000	30000	60000
Net Weight of Complete Trap...Pounds	81	92	150	166	268	321	525
Shipping Weight, Boxed.....Pounds	110	114	175	200	335	394	620
Price.....	26.50	28.50	36.00	43.00	60.00	82.00	132.00

Each Trap furnished with Water Gauge, By-Pass, Air Valve, Blow-Off Valve and Sediment Strainer.

MCDANIEL STEAM TRAPS.

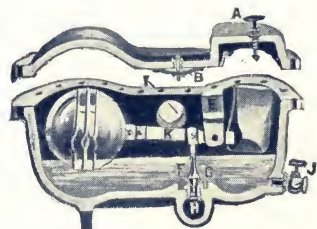


PLATE B

No.	Inlet and Outlet	Drains	Each
1	1 in.	3500 ft. 1-in. pipe	30.00
2	1 1/4 in.	7000 ft. 1-in. pipe	40.00
3	1 1/2 in.	14000 ft. 1-in. pipe	65.00
4	2 in.	20000 ft. 1-in. pipe	75.00



JENKINS DIAMOND TRAP.

BRASS OR IRON.

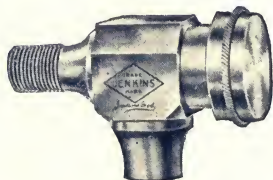


PLATE A

Size.....	Inches	$1\frac{1}{2}$	$3\frac{1}{4}$
Price.....	Each	3.50	4.00

EXHAUST PIPE HEADS.

PLATE B
Mc DANIEL.PLATE C
KEYSTONE.

MCDANIEL EXHAUST HEAD.

Size .. Ins.	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Price.....	25.00	27.50	30.00	35.00	40.00	45.00	50.00	60.00	70.00	85.00
Size .. Ins.	9	10	12	14	15	16	18	20	24	...
Price.....	105.00	120.00	150.00	175.00	185.00	200.00	225.00	250.00	300.00	.....

KEYSTONE EXHAUST HEAD.

Size.....Inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Price.....	12.00	14.00	16.00	18.00	21.00	24.00	27.00
Size.....Inches	5	6	7	8	10	12	.....
Price.....	30.00	36.00	43.00	50.00	85.00	100.00	.....

WATSON SPRING REDUCING VALVE.

FOR STEAM PUMPS, ENGINES AND STEAM VESSELS.

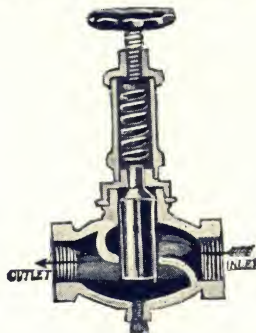


PLATE A

Size....Inches	1 x 2	1 1/4 x 2 1/2	1 1/2 x 3	2 x 4	2 1/2 x 5	3 x 6	4 x 8	5 x 10	6 x 12
Price.....	20.00	26.00	33.00	45.00	60.00	80.00	115.00	150.00	180.00

WATSON REDUCING VALVE.

WITH LEVER.

FOR STEAM HEATING OR OTHER PLACES REQUIRING LOW PRESSURE.

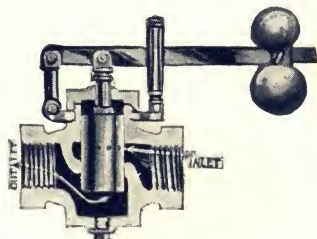


PLATE B
FOR STEAM ONLY.

ALL BRASS MADE, SCREWED ENDS.

Size.....Inches	3/4	1	1 1/4	1 1/2
Price.....	17.00	20.00	25.00	30.00

IRON BODIES, FLANGED ENDS.

Size.....Inches	2	2 1/2	3	4	5	6	8
Price.....	38.00	55.00	70.00	90.00	110.00	150.00	200.00

KIELEY EUREKA LOW PRESSURE REGULATING VALVE.

For reducing Steam Pressure from the initial or high pressure carried, which may be as high as 150 pounds per square inch, down to any pressure on the reduced side less than 15 pounds, and from this point down to as low as 1 pound.

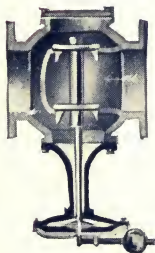


PLATE A

Size, Inches	Price, Each	Size, Inches	Price, Each	Size, Inches	Price, Each
$3\frac{1}{4}$	20.00	$3\frac{1}{2}$	85.00	4 x 8	187.50
1	22.00	2 x 4	72.00	5 x 10	242.00
$1\frac{1}{4}$	28.00	$2\frac{1}{2}$ x 5	96.00	8	275.00
$1\frac{1}{2}$	35.00	3 x 6	126.00	9	350.00
$1\frac{3}{4}$ x 2	33.00	4	100.00	10	350.00
$1\frac{3}{4}$ x $2\frac{1}{2}$	42.50	5	135.00	12	470.00
$1\frac{1}{2}$ x 3	53.50	6	180.00	6 x 12	325.00
2	44.00	7	225.00	8 x 14	400.00
$2\frac{1}{2}$	57.00	4 x 6	140.00	8 x 16	500.00
3	72.00				

This valve can be made with the inlet and outlet end of different sizes than specified above. Prices on application.

STANDARD DIAPHRAGM REDUCING VALVES.

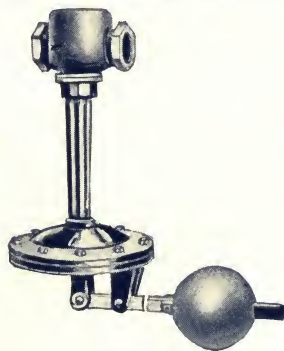


PLATE B

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Brass, Screwed.....	18.00	18.00	18.00	20.00	24.00	30.00
Iron, Screwed.....						27.00
Size.....Inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Brass, Screwed.....	40.00	50.00	65.00	80.00	140.00	200.00
Iron, Screwed.....	36.00	45.00	55.00	65.00	85.00	115.00

WATSON WATER REDUCING VALVES.

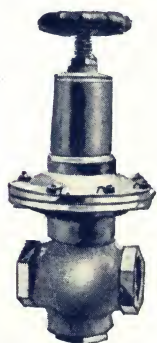


PLATE A
DIAPHRAGM PATTERN.



PLATE B
STANDARD PATTERN.

BRASS VALVES, SCREWED ENDS. DIAPHRAGM PATTERN.

Size.....Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Price.....	14.00	17.00	22.00	28.00

BRASS VALVES, SCREWED ENDS. STANDARD PATTERN.

Size.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Price.....	8.00	8.00	9.50	11.50	15.00	25.00	45.00

IRON BODY, FLANGED ENDS. STANDARD PATTERN.

Size.....Inches	3	4	5	6	8
Price.....	70.00	90.00	110.00	150.00	200.00

AUTOMATIC SAFETY CYLINDER RELIEF VALVES.



PLATE A

Which is used on all kinds of Horizontal and Vertical Engines.

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Each.....	6.50	7.00	9.50	10.50	12.50	16.00

Size.....Inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	.....
Each.....	22.00	35.00	50.00	65.00	95.00	.....

It relieves the cylinder of all condensation automatically.

WATER RELIEF VALVES.

PRICES.

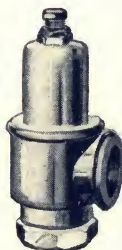


PLATE B

Size	Style of Base	Diameter of Side Outlet	Iron
2 inch	Screwed	2 inch	30.00
$2\frac{1}{2}$ inch	Screwed or 9 inch Flange	$2\frac{1}{2}$ inch	50.00
3 inch	Screwed or 9 inch Flange	3 inch	65.00
$3\frac{1}{2}$ inch	Screwed or 10 inch Flange	$3\frac{1}{2}$ inch	80.00
4 inch	Screwed or 11 inch Flange	4 inch	100.00
$4\frac{1}{2}$ inch	Screwed or 11 inch Flange	$4\frac{1}{2}$ inch Flange	125.00
$5\frac{1}{2}$ inch	Screwed or 12 inch Flange	$5\frac{1}{2}$ inch Flange	160.00
$5\frac{1}{2}$ inch	Screwed or 12 inch Flange	10 inch Flange	220.00
6 inch	Screwed or 14 inch Flange	10 inch Flange	250.00

In ordering, state pressure to be carried.
If flange is desired, state diameter.

CLIMAX CELLAR DRAINERS.

No.....	1	2	3	4	5	6
Supply Pipe.....Inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Discharge Pipe.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Automatic Movement.....	25.00	40.00	55.00	80.00	110.00	160.00
Without Automatic Movement.....	15.00	25.00	35.00	50.00	70.00	100.00



PLATE C



MCDANIEL SUCTION TEE.

PATENTED

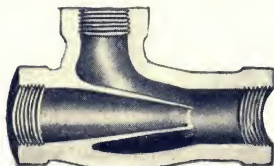


PLATE A

STANDARD TEES, 100 LBS. PRESSURE.

Size, Inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, . . . . .	.80	1.00	1.25	1.50	2.00	3.00	4.50

EXTRA HEAVY TEES, 250 LBS. PRESSURE.

Size, Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Price,	2.00	2.50	3.00	4.00	6.00	9.00	12.00	15.00	24.00	34.00

MCDANIEL SYPHON AND WATER LIFTER.

PATENTED

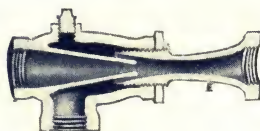


PLATE B

DESCRIPTION OF CUT.

A, Suction Pipe. B, Steam Connection. C, End of Cone, or Steam Delivery.
E, Discharge.

No.	Diameter of Pipes, in Inches			Capacities per Hour		Steam at 50 Lbs. Syphon near Water Level	
	Suction	Discharge	Size Steam Pipe to Use	Gallons	Cubic Ft.	Size, Inches	Price
0	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$	400	52	$\frac{3}{4}$	5.00
1	1	1	$\frac{1}{2}$	700	90	1	6.00
2	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{4}$	1100	140	$1\frac{1}{4}$	8.00
3	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{4}$	1600	210	$1\frac{1}{2}$	10.00
4	2	2	1	3000	400	2	12.00
5	$2\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{1}{4}$	5000	660	$2\frac{1}{2}$	20.00
6	3	3	$1\frac{1}{2}$	7000	980	3	25.00

PIPE STOCKS AND DIES.



PLATE A

DIE PLATE, NOS. 0 TO 1 3-4.

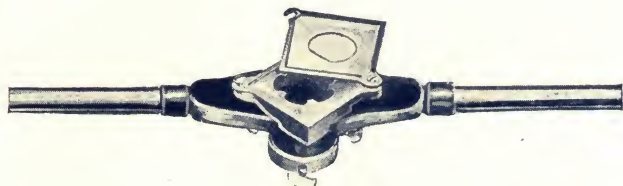


PLATE B

DIE PLATE NO. 2.

No.	00 Brass Pipe	0	1	1 1/2
Threads.	5/8, 3/4, 7/8, 1, 1 1/4	1/8 to 1/2	1/4 to 1	3/4 to 1 1/4
Size Dies.	2 x 1 1/2	2 x 1 1/2	2 3/8 x 3 3/4	3 x 3 3/4
Stocks Only.	3.50	3.50	5.00	6.00
Complete, with Dies.	13.50	9.50	15.00	13.50
Extra Dies.	2.00	1.50	2.00	2.50
Extra Bushings. ....	.25	.25	.35	.45
No.	1 1/4	2	3 2 arm	4 4 arm
Threads.	1 to 1 1/2	1 1/4 to 2	2 1/2 & 3	2 1/2 & 3
Size Dies.	3 x 3 3/4	3 7/8 x 7 7/8	4 7/8 x 1 1/4	4 7/8 x 1 1/4
Stocks Only.	6.00	9.50	25.00	33.00
Complete, with Dies.	13.50	20.00	43.00	51.00
Extra Dies.	2.50	3.50	9.00	9.00
Extra Bushings. ....	.45	.60	1.00	1.00

ARMSTRONG'S ADJUSTABLE STOCK, AND DIES. FOR THREADING PIPE.

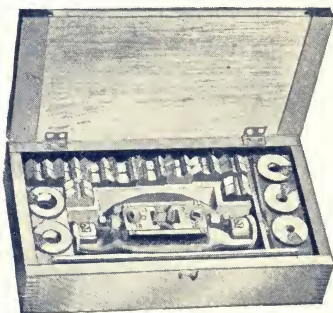


PLATE A

No. 1 Stock, 4 Right-hand Pipe Dies, $\frac{1}{8}$ to $\frac{1}{2}$	Each	9.00
No. 1 Stock, 4 each Right and Left Pipe Dies, $\frac{1}{8}$ to $\frac{1}{2}$	Each	14.00
No. 2 Stock, 5 Pipe Dies, Right, $\frac{1}{4}$ to 1.....	Each	12.00
No. 2 Stock, 6 Pipe Dies, Right, $\frac{1}{8}$ to 1.....	Each	14.00
No. 2 Stock, 5 Pipe Dies, Right and Left, $\frac{1}{4}$ to 1.....	Each	20.00
No. 2 Stock, 6 Pipe Dies, Right and Left, $\frac{1}{8}$ to 1.....	Each	23.00

This Stock will also take Bolt Dies.

DIES.

Prices for Dies quoted mean set of two pieces, numbered 1 and 2.

No. 1.	For Pipe $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, or $\frac{1}{2}$, either Right or Left.....	Each,	1.25
No. 2.	For Pipe $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ or 1, either Right or Left.....	Each,	1.50
No. 2.	For Brass Pipe $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 or 1 $\frac{1}{4}$, either Right or Left.....	Each,	2.00
No. 2 $\frac{1}{2}$.	For Pipe, double ends, $\frac{1}{2} \times \frac{3}{4}$ or 1 \times 1 $\frac{1}{4}$, either Right or Left.....	Each,	3.25
No. 3.	For Pipe, $\frac{3}{4}$, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2 inches, Right or Left.....	Each,	4.00
No. 4.	For Pipe, Sectional Dies, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ or 2 in., Right or Left.....	Each,	3.90
No. 4.	For Pipe, Sectional Die Cutters only.....	Each Cutter,	.50
No. 6.	For Pipe, Double Ends, 2 $\frac{1}{2} \times$ 3 inch, Right or Left.....	Each,	15.00
No. 7.	For Pipe, Double Ends, 2 $\frac{1}{2} \times$ 3 inch, Right or Left.....	Each,	16.00
No. 7.	For Pipe, Double Ends, 3 $\frac{1}{2} \times$ 4 inch, Right or Left.....	Each,	16.00
No. 0.	Dies Bolt, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$, Complete with Collet.....	Each,	1.95
No. 0.	Dies Bolt, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$, without Collet.....	Each,	1.00
No. 1.	Dies Bolt, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, or $\frac{7}{16}$, Right Hand.....	Each,	1.50
No. 1.	Dies Bolt, $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$, Right Hand.....	Each,	1.75
No. 2.	Dies Bolt, $\frac{1}{2}$ or $\frac{5}{8}$, Right Hand.....	Each,	2.00
No. 2.	Dies Bolt, $\frac{3}{4}$, $\frac{7}{8}$ or 1, Right Hand.....	Each,	2.00
No. 2.	Dies Bolt, 1 $\frac{1}{8}$ or 1 $\frac{1}{4}$, Right Hand.....	Each,	2.25

Bolt Dies, Left Hand, will be furnished at same price.

Either No. 1 or No. 2 half of No. 1 Die for Pipe.....	.75
Either No. 1 or No. 2 half of No. 1 Die for Bolt.....	.90
Either No. 1 or No. 2 half of No. 2 Die for Pipe.....	.90
Either No. 1 or No. 2 half of No. 2 Die for Brass.....	1.25
Either No. 1 or No. 2 half of No. 2 Die for Bolt.....	1.25
Either A or B half of No. 2 $\frac{1}{2}$ Die for Pipe.....	1.75
Either No. 1 or No. 2 half of No. 3 Die for Pipe.....	2.25
Either A or B half of No. 6 Die for Pipe.....	8.00
Either A, B, C or D quarter of No. 7 Die for Pipe.....	5.00

When ordering, please state which part of Die is wanted.

ARMSTRONG'S ADJUSTABLE STOCKS, AND DIES. FOR THREADING PIPE.



PLATE A
NO. 2 1-2.

No. 2 $1\frac{1}{2}$ Stock, 4 Dies, Cutting $1\frac{1}{2}$, $3\frac{1}{4}$, 1 and $1\frac{1}{4}$ inch Right Hand.....	12.00
No. 2 $1\frac{1}{2}$ Stock and Dies, Cutting Right and Left, $\frac{1}{2}$ to $1\frac{1}{4}$ inch.....	18.00
No. 3 Stock, 3 Sizes Pipe Dies, $1\frac{1}{4}$ to 2, Right.....	20.00
No. 3 Stock, 4 Sizes Pipe Dies, 1 to 2, Right.....	24.00
No. 3 Stock, 5 Sizes Pipe Dies, $3\frac{1}{4}$ to 2, Right.....	28.50
No. 3 Stock, 3 Sizes Pipe Dies, $1\frac{1}{4}$ to 2, Right and Left.....	32.00
No. 3 Stock, 4 Sizes Pipe Dies, 1 to 2, Right and Left.....	40.00
No. 3 Stock, 5 Sizes Pipe Dies, $3\frac{1}{4}$ to 2, Right and Left.....	48.50

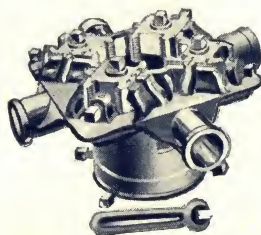


PLATE B
NO. 7.

No. 6 Stock and Die, Cutting $2\frac{1}{2} \times 3$, Right Hand.....	40.00
No. 6 Stock and Die, Cutting $2\frac{1}{2} \times 3$, Right and Left Hand.....	55.00
No. 7 Stock, Cutting $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, Right.....	60.00
No. 7 Stock, Cutting $2\frac{1}{2}$ and 3, Right.....	45.00
No. 7 Stock, Cutting $3\frac{1}{2}$ and 4, Right.....	45.00
No. 7 Stock, Cutting $2\frac{1}{2}$ to 4, Right and Left.....	92.00
No. 7 Stock, Cutting $2\frac{1}{2}$ and 3 or $3\frac{1}{2}$ and 4, Right and Left.....	60.00

EXTRA PARTS.

Size..... Inches	1	2	$2\frac{1}{2}$	3	4	6	7
Stocks Only..... Each	3.25	4.00	4.50	7.00	7.00	25.00	30.00
Bushings..... Each	.20	.25	.40	.50	.50	1.00	1.50
Wrenches..... Each	.25	.25	.25	.50		.50	.75

TOLEDO ADJUSTABLE THREADING DEVICES.



PLATE A. NO. 0



PLATE B. NO. 1

No. 0 Threads pipe from $\frac{1}{8}$ to $\frac{3}{4}$ inch inclusive. Complete with Right Hand Dies..... 16.00

No. 1 Threads pipe from 1 to 2 inch, inclusive..... 24.00
No. 1A with Ratchet, Threads pipe from 1 to 2 inch, inclusive. 30.00

EXTRA DIES FOR NO. 1 AND NO. 1A.

1 inch, per Set of 4 Pieces..... 2.50	1 $\frac{1}{2}$ inch, per Set of 4 pieces..... 2.50
1 $\frac{1}{4}$ inch, per Set of 4 Pieces..... 2.50	2 inch, per Set of 4 pieces..... 2.50



PLATE C. NO. 10.

Threads pipe from 1 inch to 2 inches..... 28.00

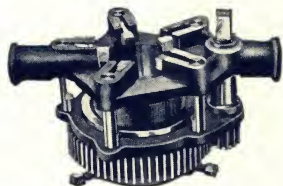


PLATE D. NO. 2, RATCHET.

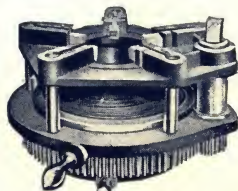


PLATE E. NO. 3, RATCHET.

Threads pipe from 2 $\frac{1}{2}$ to 4 inch, inclusive..... 100.00

Threads pipe from 4 $\frac{1}{2}$ to 8 inch, inclusive..... 300.00

EXTRA DIES FOR NO. 2.

EXTRA DIES FOR NO. 3.

2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$ 4 inch. Per Set of 5 Pieces..... 8.00

4 $\frac{1}{2}$, 5, 6, 7, 8 inch. Per Set of 5 Pieces..... 12.00

NYE ADJUSTABLE DIE STOCKS.

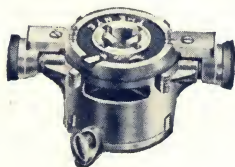


PLATE A. NO. 25.

Threads $\frac{1}{8}$ to 1 inch, inclusive.

Equipped with one set of chasers threaded on both ends, and threading from $\frac{1}{4}$ to $\frac{3}{4}$ inch, inclusive.....	18.00
Equipped with two sets of chasers, one threading $\frac{1}{4}$ to $\frac{3}{4}$ inch, inclusive, and the other threading $\frac{1}{8}$ and 1 inch, thus threading six sizes of pipe.....	23.00
Extra chasers only threaded on both ends cutting from $\frac{1}{4}$ to $\frac{3}{4}$ inch, inclusive.....	Per Set, 5.00
Extra chasers only cutting $\frac{1}{8}$ and 1 inch.....	Per Set, 5.00

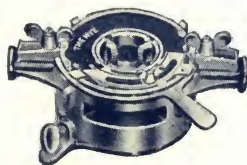


PLATE B. NO. 30.

Threads $\frac{1}{2}$ to 2 inches, inclusive.

This tool equipped with one set of chasers threading from 1 to 2 inches, inclusive.....	25.00
Equipped with extra chasers threading $\frac{1}{2}$ and $\frac{3}{4}$, making the complete range from $\frac{1}{2}$ to 2 inches.....	30.00
Extra chasers only threading 1 to 2 inches, inclusive.....	Per Set, 8.00
Extra chasers only threading $\frac{1}{2}$ and $\frac{3}{4}$ inch.....	6.00

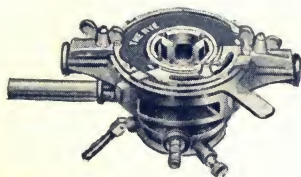


PLATE C. NO. 35. RATCHET.

Threads 1 to 2 inches, inclusive.

This tool equipped with one set of chasers threading from 1 to 2 inches, inclusive.....	30.00
Extra chasers only threading 1 to 2 inches, inclusive.....	Per Set, 8.00

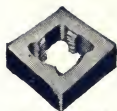


PLATE A. SOLID.

NYE DIES.



PLATE B. ADJUSTABLE.

SOLID DIES.

Size block 4x4x $\frac{7}{8}$ for No. 2 Stock	Size block 3x3x $\frac{3}{4}$ for 1 $\frac{1}{2}$ & 1 $\frac{3}{4}$ Stock	Size block 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{3}{4}$ for No. 1 Stock	Size block 2x2x $\frac{1}{2}$
2 inch. . Each, 5.00	1 $\frac{1}{2}$ inch. . Each, 4.50	1 inch. . Each, 4.00	$\frac{1}{2}$ inch. . Each, 3.00
1 $\frac{1}{2}$ inch. . Each, 5.00	1 $\frac{1}{4}$ inch. . Each, 4.00	$\frac{3}{4}$ inch. . Each, 3.00	$\frac{3}{8}$ inch. . Each, 2.50
1 $\frac{1}{4}$ inch. . Each, 4.50	1 inch. . Each, 4.00	$\frac{1}{2}$ inch. . Each, 3.00	$\frac{1}{4}$ inch. . Each, 2.50
1 inch. . Each, 4.50	$\frac{3}{4}$ inch. . Each, 3.50	$\frac{3}{8}$ inch. . Each, 2.50	$\frac{1}{8}$ inch. . Each, 2.00
$\frac{3}{4}$ inch. . Each, 4.00	$\frac{1}{2}$ inch. . Each, 3.50	$\frac{1}{4}$ inch. . Each, 2.50	
$\frac{1}{2}$ inch. . Each, 4.00	$\frac{3}{8}$ inch. . Each, 3.00	$\frac{1}{8}$ inch. . Each, 2.00	
	$\frac{1}{4}$ inch. . Each, 3.00		Size block 5x5x1 $\frac{1}{4}$
	$\frac{1}{8}$ inch. . Each, 2.50		2 $\frac{1}{2}$ inch. Each, 13.00
			3 inch. Each, 14.00

ADJUSTABLE DIES TO FIT ARMSTRONG STOCKS.

$\frac{1}{8}$ inch to 1 $\frac{1}{2}$ inch to fit No. 1 stock.....	Each,	3.50
$\frac{1}{8}$ inch to 1 inch to fit No. 2 stock.....	Each,	3.50
$\frac{1}{2}$ inch to 1 $\frac{1}{4}$ inch to fit No. 2 $\frac{1}{2}$ stock.....	Each,	5.00
$\frac{1}{2}$ inch x $\frac{3}{4}$ D. E. inch to fit No. 2 $\frac{1}{2}$ stock.....	Each,	5.00
1 inch x 1 $\frac{1}{4}$ D. E. inch to fit No. 2 $\frac{1}{2}$ stock.....	Each,	5.00
$\frac{1}{2}$ inch to 2 inch to fit No. 3 stock.....	Each,	5.00
2 $\frac{1}{2}$ inch x 3 D. E. inch to fit No. 6 stock.....	Each,	25.00
3 $\frac{1}{2}$ inch x 4 D. E. inch to fit No. 7 stock.....	Each,	35.00

SOLID SQUARE BOLT DIES.

FOR MACHINE USE.



PLATE C

Size	Number of Threads	Size of Square, Inches	Thick-ness, Inches	Price	Size	Number of Threads	Size of Square, Inches	Thick-ness, Inches	Price
$\frac{1}{4}$	16, 18, 20 ,	2 $\frac{1}{2}$	$\frac{1}{2}$	1.80	$\frac{15}{16}$	9	2 $\frac{1}{2}$	$\frac{3}{4}$	2.55
$\frac{9}{16}$	16, 18 ,	2 $\frac{1}{2}$	$\frac{1}{2}$	1.80	1 $\frac{1}{8}$	8, 12	2 $\frac{1}{2}$	1	2.70
$\frac{7}{8}$	14, 16, 18	2 $\frac{1}{2}$	$\frac{1}{2}$	1.80	1 $\frac{1}{4}$	7, 8	2 $\frac{1}{2}$	1	3.00
$\frac{1}{2}$	12, 14 , 16	2 $\frac{1}{2}$	$\frac{1}{2}$	1.80	1 $\frac{3}{8}$	6	2 $\frac{1}{2}$	1	3.30
$\frac{3}{4}$	12, 13, 14	2 $\frac{1}{2}$	$\frac{1}{2}$	1.80	1 $\frac{1}{2}$	6	2 $\frac{1}{2}$	1	3.60
$\frac{1}{2}$	12, 14	2 $\frac{1}{2}$	$\frac{3}{4}$	1.90	1 $\frac{3}{4}$	6	3	1	3.90
$\frac{1}{2}$	10, 11 , 12	2 $\frac{1}{2}$	$\frac{3}{4}$	2.00	1 $\frac{7}{8}$	5, 5 $\frac{1}{2}$	3	1	4.20
$\frac{1}{2}$	11 , 12	2 $\frac{1}{2}$	$\frac{3}{4}$	2.10	1 $\frac{3}{4}$	5	3	1 $\frac{1}{4}$	5.40
$\frac{3}{4}$	10, 12	2 $\frac{1}{2}$	$\frac{3}{4}$	2.20	1 $\frac{7}{8}$	4 $\frac{1}{2}$, 5	3 $\frac{1}{2}$	1 $\frac{1}{2}$	6.50
$\frac{1}{2}$	10	2 $\frac{1}{2}$	$\frac{3}{4}$	2.30	2	4 $\frac{1}{2}$, 5	3 $\frac{3}{4}$	2	7.50
$\frac{7}{8}$	9, 10, 12	2 $\frac{1}{2}$	$\frac{3}{4}$	2.40					

Will send above $\frac{1}{32}$ oversize, with threads indicated by the heavy type, V form, unless otherwise ordered.

THE FORBES' PIPE CUTTERS.

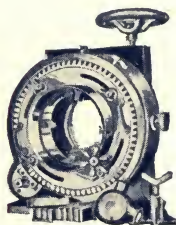


PLATE A

NO. 56 HAND MACHINE

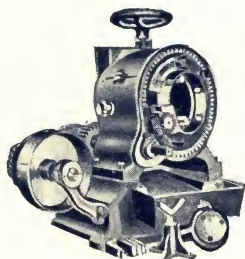


PLATE B

NO. 78 HAND OR POWER MACHINE

In comparing our prices with those of other makers, we call special attention to the fact that our Stock is a complete tool, with which a pipe can be threaded or cut off without the aid of a vise, and to the ease with which the work is accomplished. This is the distinguishing feature of the Forbes' Patent Die Stock.

The shells are adjustable for wear, which greatly prolongs the life of the machine. Its parts can be duplicated, when worn out, at a small cost.

Hand or Power Machine	Hand Machine	Range	Hand Machine Price	Hand or Power Machine Price
No. 70*	No. 30*	1/4 to 2 in., both Right and Left.....	50.00	100.00
No. 72*	No. 32*	1/4 to 2 in., for Solid Dies (without dies)...	45.00	95.00
No. 74*	No. 34*	1/4 to 3 in., R. H., 1 to 2 inches L. H....	75.00	125.00
No. 76*	No. 36*	3/4 to 3 in., R. H., 3/4 to 2 inches L. H....	85.00	135.00
No. 77*	No. 37*	1/4 to 3 in., R. and L.....	105.00	155.00
No. 78†	No. 46†	2 1/2 to 4 in., R. H.....	85.00	140.00
No. 80*	No. 38*	1 1/2 to 4 in., R. H.....	100.00	150.00
No. 82*	No. 40*	1 1/2 to 4 in., R. and L.....	115.00	165.00
No. 84*	No. 42*	1 to 4 in., R. H.....	110.00	160.00
No. 86*	No. 44*	1 to 4 in., R. and L.....	130.00	180.00
No. 88†	No. 50†	4 to 6 in., R. H.....	115.00	170.00
No. 90†	No. 52†	3 1/2 to 6 in., R. H.....	130.00	180.00
No. 92†	No. 54†	2 1/2 to 5 in., R. H.....	150.00	200.00
No. 94†	No. 56†	2 1/2 to 6 in., R. H.....	175.00	225.00
No. 96*	No. 62†	2 1/2 to 6 in., R. H. (extra heavy).....	300.00	250.00
Nc. 98*	No. 58*	1 to 6 in., R. H.....	190.00	285.00
No. 99*	No. 60*	1 to 6 in., R. and L.....	235.00	535.00
No. 100†	No. 63*	2 1/2 to 8 in., R. and L.....	360.00	500.00
No. 102†	No. 64†	2 1/2 to 8 in., R. H.....	325.00	700.00
No. 104*	No. 66†	2 1/2 to 10 in., R. H.....	500.00	700.00
No. 106*	No. 67*	2 1/2 to 10 in., R. H.....	500.00	750.00
No. 107†	No. 68*	2 1/2 to 10 in., R. and L.....	550.00	900.00
.....	No. 69†	2 1/2 to 12 in., R. H.....	650.00	.....

* Pressure feed machine.

† Leader screw.

STILLSON WRENCHES.



PLATE A

Length when Open..	6	8	10	14	18	24	36	48
Grips {	$\frac{1}{8}$ wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ wire to $\frac{3}{4}$ pipe	$\frac{1}{8}$ wire to 1 pipe	$\frac{1}{4}$ wire to 1 $\frac{1}{2}$ pipe	$\frac{1}{4}$ wire to 2 pipe	$\frac{1}{4}$ wire to 2 $\frac{1}{2}$ pipe	$\frac{1}{4}$ pipe to 3 $\frac{1}{2}$ pipe	1 pipe to 5 pipe
Wrench, Complete..	2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Jaws..... Each	.75	.75	.80	1.00	1.33	2.10	4.75	7.25
Frames..... Each	.35	.35	.40	.50	.55	.80	1.30	1.50
Steel Handles.. Each	.95	.95	1.10	1.45	2.10	3.20	6.40	9.25
Nuts..... Each	.11	.11	.14	.17	.22	.35	.55	.95
Wood Handl's. Each	.16	.16	.18	.25	.28			

TRIMO PIPE WRENCHES.



PLATE B

Length Open.....	6	8	10	14	18	24	36	48
Takes from.....	$\frac{1}{8}$ wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ wire to $\frac{3}{4}$ pipe	$\frac{1}{8}$ wire to 1 pipe	$\frac{1}{4}$ wire to 1 $\frac{1}{2}$ pipe	$\frac{1}{4}$ wire to 2 pipe	$\frac{1}{4}$ wire to 2 $\frac{1}{2}$ pipe	$\frac{1}{2}$ pipe to 3 $\frac{1}{2}$ pipe	1 pipe to 5 inch
Price..... Each	2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Jaw..... Each	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
Nut..... Each	.20	.20	.27	.35	.42	.50	.65	.80
Inserted Jaw... Each	.25	.25	.33	.50	.55	.65	1.00	1.25
Frame..... Each	.25	.25	.33	.45	.55	.65	.75	1.00

STRAP PIPE WRENCHES.

FOR BRASS AND NICKELED PIPE.



PLATE A
PARMELEE'S GIRDLE PIPE WRENCH.



PLATE B
HAYDEN PIPE WRENCH.

PARMELEE'S GIRDLE PIPE WRENCH.

10 inch, No. 1 Wrench, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 inch, complete.....	5.00
20 inch, No. 2 $\frac{1}{2}$ Wrench, Improved, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inch, complete.....	7.50
25 inch, No. 3 $\frac{1}{2}$ Wrench, Improved, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3 inch, complete.....	7.50

STOCKS.

10 inch, No. 1.....	Each, 2.25
20 inch, Improved, No. 2 $\frac{1}{2}$	Each, 2.50
25 inch, Improved, No. 3 $\frac{1}{2}$	Each, 3.00

GIRTHS.

For 10 inch Stock, No. 1:	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 inch.....	Each, .75
For 20 and 25 inch Stocks:	$\frac{3}{4}$, 1, $1\frac{1}{4}$ inch.....	Each, 1.25
	$1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3 inch.....	Each, 1.25

HAYDEN PIPE WRENCH.

No.....	2	3
Takes Pipe..... Inches	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ & 1	$1\frac{1}{4}$, $1\frac{1}{2}$ & 2
Price, with One Size Clamp Only.....	Each 2.00	4.00
Extra Clamps.....	Each .75	1.50
Wrench Bar Only.....	Each 1.25	2.50



PLATE C
WARNOCK WRENCH.



PLATE D
REED STRAP WRENCH.

WARNOCK WRENCH.

12-inch Wrench, complete, $\frac{1}{8}$ to 2 inch pipe.....	Each, 1.50	18-inch Wrench, complete, 1 to 5 inch pipe.....	Each, 2.50
12-inch Strap, ready for use. Each, .25		18-inch Strap, ready for use. Each, .50	

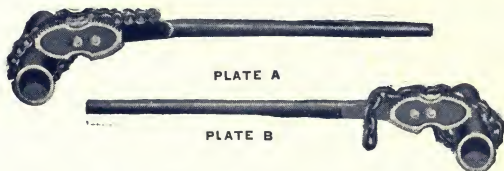
REED STRAP WRENCH:

Length.....	Inches	12	18
Capacity.....	Inches	$\frac{1}{8}$ to 2	1 to 5
Wrench.....	Each	1.50	2.50
Straps.....	Each	.25	.50

VULCAN BIJAW CHAIN PIPE WRENCHES.

WITH DOUBLE-ENDED REVERSIBLE JAWS, AND EITHER
CABLE OR FLAT LINK CHAIN.

FOR TURNING OR HOLDING PIPE, PIPE FITTINGS, BOLTS, BARS,
SHAFTS, ETC., FROM 1-8 TO 12 INCHES DIAMETER.



No.....	30	31	32	33	33 1/2	34	35
Capacity Size Pipe.....In.	1/8 to 3/4	1/8 to 1 1/2	1/4 to 2 1/2	3/4 to 4	1 to 6	1 1/2 to 8	2 to 12
With Flat Link Chain Ea.	2.50	3.50	5.00	7.00	9.00	11.00	18.00
With Cable Chain.....Ea.	2.25	3.25	4.50	6.25	7.75	9.50	16.00
Extreme Length.....In.	13 3/4	20	27	37	44 1/2	50 1/2	64 1/2
Weight.....Lb.	1 3/4	5 3/4	10	16	24	31	50
Extra Jaws.....Pair	1.00	1.75	2.75	4.00	4.75	5.50	7.50
Extra Flat Link Chain Ea.	.75	1.00	1.50	2.50	3.25	4.00	6.00
Length.....In.	9 1/2	13 1/2	17 1/2	22 1/2	31	39	54 1/2
Breaking Strain.....Lb.	3,600	6,700	9,800	12,500	14,300	15,700	21,800
Extra Cable Chain.....Ea.	.50	.75	1.00	1.75	2.00	2.50	4.00
Length.....In.	9 3/4	14 1/2	18	27	33 1/2	42	57
Size Iron.....In.	1 1/8	1 1/2	1 3/4	2	2 1/2	3	3 1/2
Breaking Strain.....Lb.	1,200	4,000	6,000	10,500	12,500	15,000	19,000

AGRIPPA CHAIN PIPE-FITTINGS WRENCHES.

WITH FLAT LINK CHAIN ONLY.



PLATE C

No.....	20	21	22	23	23 1/2	24	25
Capacity Pipe Fittings In.	1/8 to 3/4	1/8 to 1 1/2	1/4 to 2 1/2	3/4 to 4	1 to 6	1 1/2 to 8	2 to 12
Price.....Ea.	2.50	3.50	5.00	7.00	9.00	11.00	18.00
Extreme Length.....In.	13 3/4	20	27	37	44 1/2	50 1/2	64 1/2
Weight.....Lb.	2 1/2	5 3/4	9 3/4	17	24	32	56
Extra Jaws.....Ea.	1.00	1.75	2.75	4.00	4.75	5.50	7.50
Extra Chains.....Ea.	1.00	1.25	1.75	2.75	3.75	4.50	6.75
Length.....In.	10	15	19 1/2	26	34	45	61
Breaking Strain.....Lb.	3,600	6,700	9,800	12,500	14,300	15,700	21,800



COE'S WRENCHES.



PLATE A

Size.....Inches	6	8	10	12	15	18	21
Black.....Per Dozen	9.00	10.00	12.00	14.00	24.00	30.00	36.00
Bright.....Per Dozen	10.00	11.00	14.00	16.00	26.00	32.00	38.00



PLATE B

28 inch.....	Each,	9.75
36 inch.....	Each,	19.00
48 inch.....	Each,	47.00

ENGINEERS' WRENCHES.



PLATE C

Size.....Inches	6	8	10	12	15	18	21
Black.....Per Dozen	9.00	10.00	12.00	14.00	24.00	30.00	36.00
Bright.....Per Dozen	10.00	11.00	14.00	16.00	26.00	32.00	38.00

TRIMO MONKEY WRENCHES.



PLATE D

Size.....Inches	6	8	10	12	15	18	21
Black.....Per Dozen	9.00	10.00	12.00	14.00	24.00	30.00	36.00
Polished.....Per Dozen	10.50	11.75	14.50	16.50	27.00	33.00	39.00

TRIMO PIPE CUTTERS.



PLATE A

Size No.....	1	2	3
Cuts Pipe.....Inches	$\frac{1}{8}$ to $1\frac{1}{4}$	$\frac{1}{2}$ to 2	$1\frac{1}{4}$ to 3
Price.....Each	4.50	6.00	10.00
Extra Nuts.....Each	.35	.35	.40
Extra Wheels.....Each	.30	.30	.40
Extra Rolls.....Each	.30	.30	.40
Extra Pins with Cotter Pins... Per Dozen	1.00	1.00	1.00
Extra Anti-Friction Washers... Per Dozen	.60	.60	.60
Extra Fork Block Carrier.....Each	.10	.10	.10
Extra Block.....Each	1.25	1.25	1.75
Extra Frame.....Each	2.00	2.25	2.50
Extra Handle Screw.....Each	1.00	1.25	2.00
Extra Handle.....Each	.35	.35	.35

SAUNDERS' ONE WHEEL AND ROLLER PIPE CUTTERS.

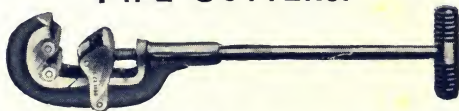


PLATE B

No.....	1	2	3	4	5
Cuts Pipe.....Inches	$\frac{1}{8}$ to 1	1 to 2	2 to 3	$2\frac{1}{2}$ to 4	4 to 6
Price.....Each	3.00	4.50	11.00	18.00	28.00
Extra Block and Wheel.....Each	1.25	1.75	2.75	3.50	4.00
Extra Wheels.....Each	.24	.32	.60	.60	.60
Extra Rollers.....Each	.24	.32	.50	.50	.60
Extra Pins.....Each	.10	.10	.15	.15	.15

BARNES PIPE CUTTERS.



PLATE C

No.....	1	2	3	4	5	6	7
Cuts Pipe.....Inches	$\frac{1}{8}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	4 to 6	6 to 8	9 to 12
Price.....Each	4.50	6.00	10.00	20.00	30.00	40.00	50.00
Extra Wheels.....Each	.25	.30	.40	.50	.75	.75	.75
Extra Wheel Pins.....Each	.10	.10	.10	.20	.20	.25	.25



SMITH'S COMBINATION VISES.

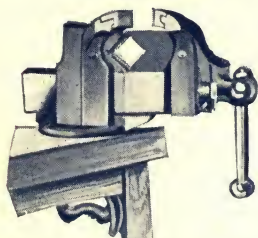


PLATE A

No.....	1	2	3
Takes.....Inches	$\frac{1}{8}$ to 2	$\frac{1}{2}$ to 3	$\frac{1}{4}$ to 4
Each.....	16.00	20.00	28.00

WALWORTH VISES.

Each..... 18.00

5 inch Jaw. Takes $\frac{1}{8}$ to 6 inches.

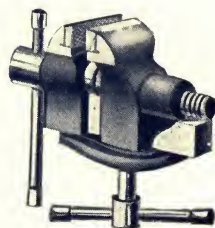


PLATE B

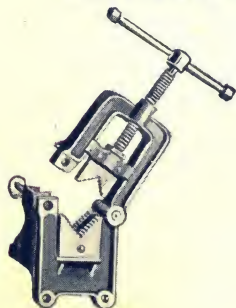
MALLEABLE IRON IMPROVED HINGE
OR OPEN JAW PIPE VISES.

PLATE C

THIS STYLE OF PATTERN, NOS. 1 AND 2.

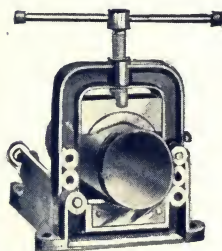


PLATE D

THIS STYLE OF PATTERN, NOS. 3, 4 AND 5

No. 1, holds	$\frac{1}{8}$ to	2-inch pipe.....	10.00
No. 2, holds	$\frac{1}{4}$ to	3-inch pipe.....	13.00
No. 3, holds	$\frac{1}{2}$ to	4-inch pipe.....	24.00
No. 4, holds	2 to	6-inch pipe.....	30.00
No. 5, holds	$2\frac{1}{2}$ to	8-inch pipe.....	45.00
No. 6, holds	4 to	12-inch pipe.....	70.00

VULCAN CHAIN PIPE VISES.

No. 2. For pipe sizes, $\frac{1}{8}$ to 4 ins.	Each,	5.00
Base	Each,	1.00
Jaws	Pair,	2.25
Chain and Screw		1.50
Screw . . . . .		.20
Handle and Nut		1.10
Washer20

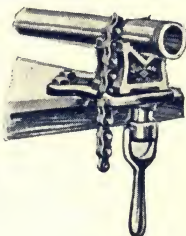


PLATE A

SEVEN POUND PIPE VISES.



PLATE B

No. 0. Pipe, $\frac{1}{8}$ to $2\frac{1}{2}$ inches.	Each,	4.50
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NYE PIPE VISES.



PLATE C

Price	Each,	5.00
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ENGINEERS' FAVORITE FLUE CLEANERS.



PLATE A

Size.....Inches	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	5	6
Price.....Each	2.00	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	5.00	6.25	7.50

INGALLS' TUBE CLEANERS.



PLATE B



PLATE C. WITH BRUSH.

Size.....Inches	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	4	4 1/2	5	6
Price.....Each	2.00	2.25	2.50	2.75	3.00	3.25	3.50	4.00	4.50	5.00	6.00
With Brush.....Each	2.50	2.85	3.15	3.45	3.75	4.05	4.40	5.00	5.65	6.25	7.50

SPIRAL WIRE FLUE BRUSHES.



PLATE D

Size.....Inches	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
Tinned.....Each	1.35	1.45	1.55	1.70	1.90	2.10	2.30	2.50
Black.....Each		1.10	1.20	1.20	1.25	1.40	1.50	1.60
Size.....Inches	3	3 1/4	3 1/2	4	4 1/2	5	6	.....
Tinned.....Each	2.80	3.00	3.30	3.75	4.00	4.25	4.75	.....
Black.....Each	1.75	3.25	3.50	4.00	.....	.....	.....	.....

COOK'S STEAM BOILER TUBE CLEANERS.

INCLUDING TWO NIPPLES AND TWO HOSE CLAMPS.

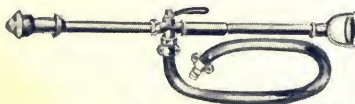


PLATE E

No. 1.	1 to 1 3/4 in., tube takes 1/2 in. steam pipe and 3/4 in. steam hose...	9.00
No. 2.	2 to 2 1/2 in., tube takes 1/2 in. steam pipe and 3/4 in. steam hose...	10.00
No. 3.	2 3/4 to 3 1/4 in., tube takes 3/4 in. steam pipe and 1 in. steam hose...	12.00
No. 4.	3 1/2 to 4 in., tube takes 1 in. steam pipe and 1 1/4 in. steam hose...	14.00
No. 5.	4 1/4 to 5 in., tube takes 1 in. steam pipe and 1 1/4 in. steam hose...	16.00
No. 6.	5 1/2 to 6 in., tube takes 1 1/4 in. steam pipe and 1 1/2 in. steam hose...	18.00

RAINBOW PACKING

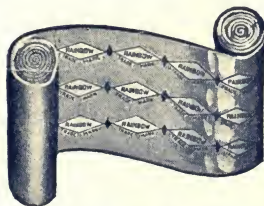


PLATE A

Made in Rolls about 200 lbs. each, $\frac{1}{32}$, $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, and $\frac{1}{2}$ inch.....Per Pound, 1.00
 With Wire Insertion, manufactured, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, and $\frac{1}{4}$ inch thick...Per Pound, 1.50

SMOOTH-ON ASBESTOS SHEET PACKING.



PLATE B

Prepared in Rolls 10 yards long, 40 inches wide, $\frac{1}{32}$ and $\frac{1}{16}$ inch thick...Per Pound, 1.25



PLATE C
ROUND.

PISTON PACKING



PLATE D
SQUARE.

Round and Square, $\frac{1}{4}$ to $1\frac{1}{2}$ inch, 12 feet in a coil.....Per Pound, .85
 Rubber Back, Square, $\frac{1}{4}$ to $1\frac{1}{2}$ inch, 12 feet in a coil.....Per Pound, 1.00
 Piston Pump Packing, $\frac{1}{4}$ to $1\frac{1}{4}$ inch, 12 feet in a coil.....Per Pound, 1.00

STEAM SHEET PACKING.



PLATE A

Cloth insertion; cloth one side, cloth both sides.

Thickness	1-Ply	2-Ply	3-Ply	4-Ply
$\frac{1}{64}$ inch	.70	...	...	...
$\frac{1}{32}$ inch	.65	...	...	...
$\frac{1}{16}$ inch	.60	.63	.66	...
$\frac{3}{32}$ inch	.55	.58	.61	...
$\frac{1}{8}$ inch	.55	.55	.58	.61
$\frac{3}{16}$ inch	.55	.55	.55	.58
$\frac{1}{4}$ inch	.55	.55	.55	.55

One-ply cloth to every $\frac{1}{16}$ inch thickness.

Three cents per pound additional will be charged for each extra ply.

All packing is one yard wide, and any length desired.

SMOOTH-ON COATED CORRUGATED GASKETS



PLATE B

FULL WIDTH GASKET



PLATE C

NARROW WIDTH GASKET

The best gaskets for flanged joints for any pressure or temperature, for Steam, Water, Oil, Air or Ammonia.

List price, one cent per square inch, surface measurement.



HAIR FELT.

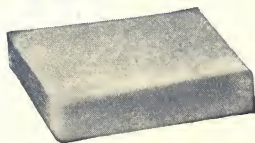


PLATE A

In Bales of about 300 square feet each,	$\frac{1}{4}$ in. thick.....	Per Sq. Foot,	.07
In Bales of about 300 square feet each,	$\frac{1}{2}$ in. thick.....	Per Sq. Foot,	.08
In Bales of about 300 square feet each,	$\frac{3}{4}$ in. thick.....	Per Sq. Foot,	.09 $\frac{1}{2}$
In Bales of about 300 square feet each,	1 in. thick.....	Per Sq. Foot,	.11
In Bales of about 300 square feet each,	1 $\frac{1}{4}$ in. thick.....	Per Sq. Foot,	.13 $\frac{1}{2}$
In Bales of about 300 square feet each,	1 $\frac{1}{2}$ in. thick.....	Per Sq. Foot,	.16
In Bales of about 300 square feet each,	2 in. thick.....	Per Sq. Foot,	.21

OAKUM.

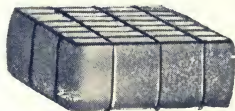


PLATE B

LAMP WICK.

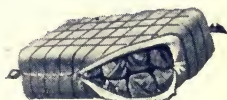


PLATE C

MANILA ROPE.



PLATE D

COTTON WASTE.



PLATE E

Prices on application.

ASBESTOS WICK PACKING.

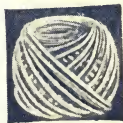


PLATE F

Standard Asbestos Wick Packing.....	Per Pound,	.50
XX Asbestos Wick Packing for Wire Wiping, Caulking, etc.....	Per Pound,	.75
Canadax Asbestos Wick Packing.....	Per Pound,	.50

Unless otherwise specified, will furnish $\frac{1}{2}$ pound balls.

SMOOTH-ON PRODUCTS.



PLATE A

SMOOTH-ON IRON COMPOUNDS, Nos. 1 AND 2 IN BLUE LABELED CANS

Are chemical Iron Cements for repairing leaks or breaks in castings and for making connections in steam or hydraulic work. They withstand fire. No. 1, quick hardening. No. 2, slow hardening and hydraulic. Applied as a paste or putty. Prepared and sold in Powder Form. Must be applied to cold metal.

SMOOTH-ON ELASTIC CEMENT, No. 3 IN GRAY LABELED CANS

An Iron Cement, especially prepared for use on all seams of boilers or tanks to stop leaks, also for boiler patching and for screw-thread joints. Prepared and sold in Putty Form. This cement is hardened by heat. Applied as a paint, paste or putty. May be applied to hot metal.

SMOOTH-ON CASTINGS CEMENT, No. 4 IN YELLOW LABELED CANS

Is an Iron Cement for repairing blemishes, blowholes or defects in iron or steel castings, made in two grades. Prepared and sold in Powder Form. Applied as a putty.

SMOOTH-ON HUB JOINTS, No. 5 IN RED LABELED CANS

Is an Iron Caulking Cement for bell and spigot cast iron soil and greenhouse pipes, in place of caulking lead and in combination with lead.

SIMPLEX PIPE CLAMPS.

PRICE LIST

Size, Inches	Price	Size, Inches	Price
1/2	1.50	9	15.75
3/4	1.50	10	18.75
1	1.50	12	22.50
1 1/4	1.90	14	31.50
1 1/2	2.25	15	33.75
2	3.00	16	36.00
2 1/2	3.75	18	40.50
3	4.50	20	45.00
3 1/2	5.25	21	50.00
4	6.00	22	55.00
4 1/4	6.75	24	60.00
5	7.50	26	65.00
6	9.00	28	70.00
7	10.50	30	76.00
8	13.00	32	82.00

PORCELAIN ENAMELED BATHS.



PLATE A

THE "COLONNA"

Porcelain Enameled Iron "Colonna" Flat Bottom Bath Tub, with 3-inch Roll Rim. Drilled 2½-inch Overflow Hole, 1⅜-inch Cock Holes, 3½ inches center to center.

DIMENSIONS

Width Over Rim.....	29 ½ in.
Width Inside.....	23 ½ in.
Depth Inside.....	17 in.
Height from Floor to Top or Rim.....	22 ½ in.
Center of Outlet in Tub to Edge of Rim.....	7 ¼ in.

Nominal Size..... Feet	4	4 ½	5	5 ½	6
Length Over Rim..... Inches	50 ½	56 ½	62 ½	68 ½	74 ½
Approximate Shipping Weight... Pounds	270	290	330	355	390
As Described.....	24.00	24.00	27.00	30.75	35.25

PORCELAIN ENAMELED BATHS.



PLATE A

THE "BARONESS"

Porcelain Enameled Iron Flat Bottom "Baroness" Bath Tub on Painted Base. Fitted with Nickel-plated Brass Low Bell Supply and Waste Fixture with $\frac{1}{2}$ -inch Supply Pipes, Compression Valves with China Indices and China Index on Waste.

NOTE—Base can be furnished enameled, if desired.

DIMENSIONS

Width Over Rim.....	29 $\frac{1}{2}$ in.
Width Inside.....	23 $\frac{1}{2}$ in.
Depth Inside.....	17 in.
Height from Floor to Top of Rim.....	22 in.
Width of Rim.....	3 in.

Nominal Size..... Feet	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
Length Over Rim..... Inches	50 $\frac{1}{2}$	56 $\frac{1}{2}$	62 $\frac{1}{2}$	68 $\frac{1}{2}$	74 $\frac{1}{2}$
As Described.....	48.00	48.00	53.00	58.00	63.00
Bath Tub Only, Drilled for Fixture shown	30.00	30.00	35.00	40.00	45.00

If with Enameled Base, Add..... 4.00

PORCELAIN ENAMELED LAVATORIES.

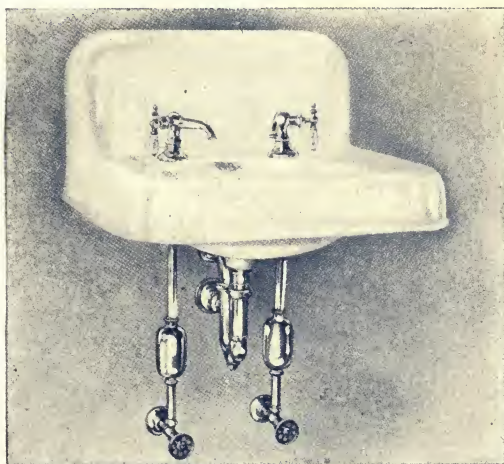


PLATE A

Porcelain Enameled Lavatory, with Slab, Apron, Oval Bowl, Overflow and Back All in One Piece, Concealed Wall Hanger, Nickel-plated Waste Plug, Rubber Stopper, Chain Stay and Chain.

DIMENSIONS

Slab.....	18 x 24 in.
Bowl.....	12 x 15 in.
Back.....	10 in.
Size.....	18 x 24 in.

Enameled Exterior, Less all Nickel-plated Fittings..... 14.00

PORCELAIN ENAMELED LAVATORIES.



PLATE A

Porcelain Enameled Lavatory, with Slab, Oval Bowl, Overflow and Back All in One Piece, with Concealed Hangers, Nickel-plated Waste Plug, Coupling and Rubber Stopper.

DIMENSIONS

Width.....	19 in.
Depth.....	16 in.
Bowl.....	10 $\frac{1}{2}$ x 13 in.
Height of Back.....	6 in.
Enameled Inside, Less all Nickel-plated Fittings.....	6.50

PORCELAIN ENAMELED LAVATORIES.



PLATE A

Porcelain Enameled Corner Lavatory, with Slab, "D" Pattern Bowl, Overflow and Back All in One Piece, with Concealed Hangers, Nickel-plated Waste Plug, Coupling and Rubber Stopper.

DIMENSIONS

Length on Side.....	17 in.
Bowl.....	11 x 14 in.
Height of Back.....	8 in.
Enameled Inside, Less all Nickel-plated Fittings.....	7.75

IMPERIAL LOW-DOWN CLOSET OUTFIT.



PLATE A

PRICES ON APPLICATION.



CLOSET TANKS.

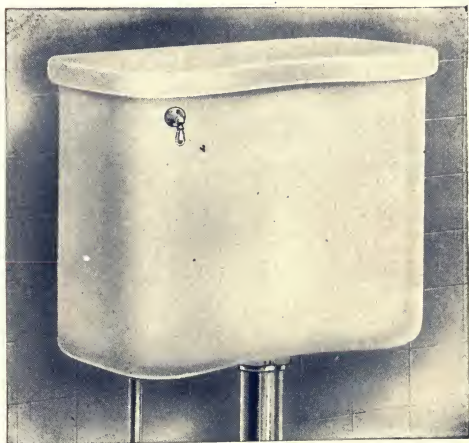


PLATE A
ROMAN, CHINA TANK.



PLATE B
ROMANIA, OAK TANK.

PRICES ON APPLICATION.



CLOSET BOWLS.



PLATE A

"NEPTUNE" REVERSE
TRAP CLOSET BOWL.



PLATE B

"VIKING" SYPHON
JET CLOSET BOWL.



PLATE C

"SIREN" SYPHON ACTION CLOSET BOWL.

PRICES UPON APPLICATION.



CLOSET SEATS.



PLATE A

Hardwood seat, $1\frac{1}{4}$ inch thick, with cover; piano polished, with nickel-plated brass offset post hinges (for low down closets) . . . 3.50

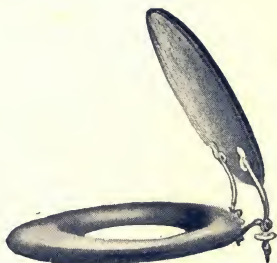


PLATE B

Hardwood seat, $1\frac{1}{2}$ inch thick, with cover, piano polished, shaped to fit the body, with nickel-plated brass post hinges. 5.00



PLATE C

Hardwood seat, $1\frac{1}{4}$ inch thick, with cover, nickel brass post hinges 3.00



PLATE D

Hardwood seat, $1\frac{1}{4}$ inch thick, with cover. Wood strip attachment to bowl with nickel-plated bolts 2.00

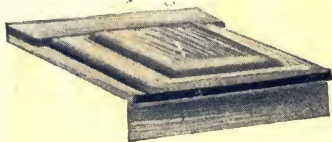
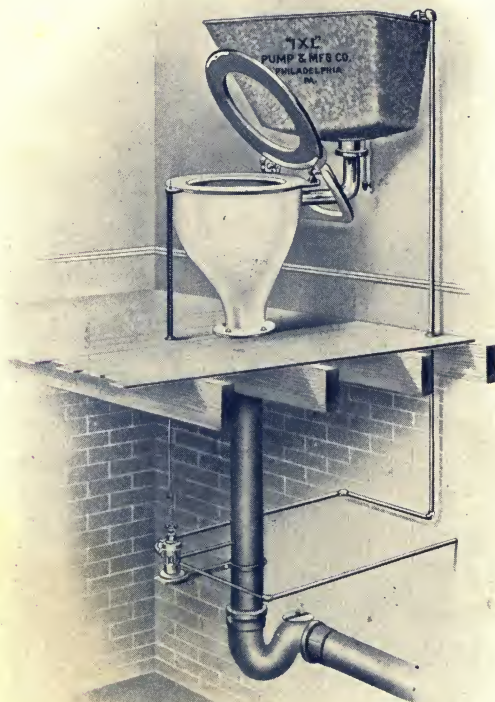


PLATE E

Hardwood square hopper seat, with cover 2.00

**THE IMPROVED "IXL" ANTI-FREEZING
AUTOMATIC LOW-DOWN CLOSET
COMBINATION.**

**GALVANIZED TANK AND LID.
GUARANTEED AGAINST FREEZING IF PROPERLY SET**



PATENT APPLIED FOR

PLATE A

PRICES ON APPLICATION.

IRON FLUSHING RIM HOPPERS.

ENAMELED INSIDE.

PAINTED OUTSIDE.



PLATE A

Tall Round Flushing Rim Enameled Hopper with 1 1/4-inch Brass Spud and Coupling, and Swing Seat and Weight.

Price..... 9.00

IRON HOPPER.



PLATE B

Tall Philadelphia Hopper with horn, Enameled inside

Price..... 3.00

RANGE URINALS.

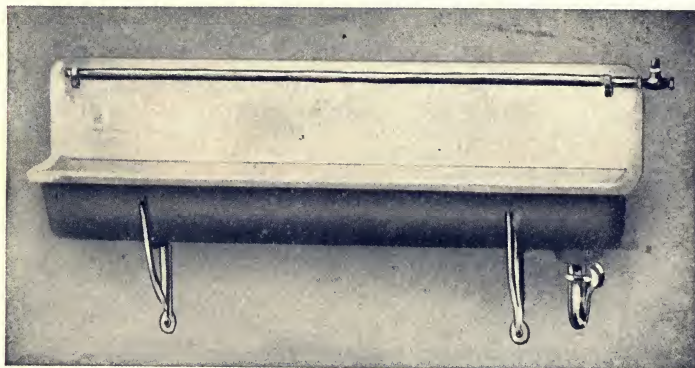


PLATE A

Roll Rim Public Urinal with Back on Brackets, with Brass Beehive Strainer. Perforated Flush Pipe (Brass on Enameled and Galvanized Iron on Painted Urinals). Loose Key Stop and Nickel-plated Vented "P" Trap.

Length Urinal	With Galvanized Wash Down Pipe Painted	With Brass Wash Down Pipe Enameled	Without Trap Wash down Pipe and Stop Painted	Without Trap Wash Down Pipe and Stop Enameled
2 feet.....	17.25	21.25	8.00	10.50
2 feet 6 inches.....	18.25	23.50	8.50	12.00
3 feet.....	19.50	25.75	9.50	13.50
3 feet 6 inches.....	21.00	28.00	10.50	15.00
4 feet.....	22.25	30.25	11.50	16.50
5 feet.....	25.00	36.25	13.50	21.00
6 feet.....	28.25	42.75	16.00	26.00
7 feet.....	31.50	49.25	18.50	31.00
8 feet.....	34.75	55.75	21.00	36.00
9 feet.....	38.00	62.25	23.50	41.00
10 feet.....	41.25	68.75	26.00	46.00
12 feet.....	47.75	81.75	31.00	56.00

If without trap, deduct 5.75 list.

Urinals over 5 feet in length are made in two or more pieces. Can furnish galvanized finish if desired. Prices upon application.

Can be furnished with outlet on left end, but will be sent as shown, unless otherwise ordered.

Waste coupling for lead pipe is provided when urinal is furnished without trap. Special length urinals can be furnished. Prices upon application.

PORCELAIN ENAMELED URINALS.



PLATE A
FLAT BACK



PLATE B
CORNER

FLAT BACK.

Number.....	1	2
Width of Back..... Inches	12	15
Plain.....	1.00	1.30
Galvanized.....	2.00	2.50
Enameled.....	2.50	3.00

CORNER.

Number.....	1	2	3	4
Length of Sides..... Inches	9	10	11	12
Plain.....	1.00	1.10	1.20	1.35
Galvanized.....	1.70	1.85	2.25	2.75
Enameled.....	2.25	2.40	2.75	3.25

Can be furnished without recess in corner at same price.

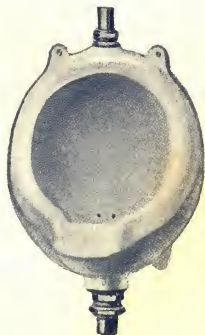


PLATE C

Porcelain Enameled Flat Back Lipped Urinal with Inlet and Outlet Couplings.	
Size, 15 inches high, 13 inches wide.	
Enameled all over, as described.....	12.00
Enameled inside, as described.....	10.00

PORCELAIN ENAMELED KITCHEN SINKS.



PLATE A

Porcelain Enameled Roll Rim Sink and Back All in One Piece, with Concealed Wall Hanger, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs and "P" Trap with Waste and Vent to Wall.

Wall to Center of Waste.....	6 1/2 in.
Center to Center of Faucet Hole.....	8 in.

Enameled Inside, Less Faucets and Trap.

16 x 24 inch.....	8.75
18 x 24 inch.....	9.25
18 x 30 inch.....	10.75
18 x 36 inch.....	12.00
20 x 30 inch.....	11.50
20 x 36 inch.....	12.75
22 x 36 inch.....	13.25
20 x 40 inch.....	14.00
22 x 42 inch.....	14.50
If with Painted Brackets instead of Concealed Hangers, Add per Pair.....	.50
If with Porcelain Enameled Brackets instead of Concealed Hangers, Add per Pair.....	1.00
If with Vented "P" Trap, Add.....	5.75
If with Bibbs, Add per Pair.....	2.50
If with Galvanized Air Chambers, Add per Pair.....	2.00
If with Painted Legs, Add per Pair.....	.50
If with Enameled Legs, Add per Pair.....	1.00

WROUGHT STEEL KITCHEN SINKS.

WITH CAST IRON COUPLING FOR LEAD PIPE.

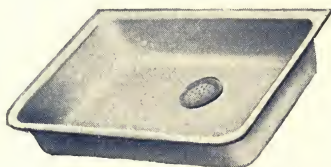


PLATE A
ROLL EDGES.

No.	01	01 1/2	02	02 1/2	03	04	05	06
Width.....Inches	16	18	18	20	18	20	20	20
Length.....Inches	24	24	30	20	36	30	36	40
Depth.....Inches	6	6	6	6	6	6	6	6
Plain.....Each	1.85	2.10	2.35	2.35	2.85	2.60	3.25	4.10
Painted inside and out.....Each	2.10	2.35	2.60	2.60	3.35	3.10	3.85	4.60
Galvanized inside and out.....Each	2.60	2.85	3.35	3.35	4.10	3.85	4.60	5.35
Blue Enameled inside and out.....Each	3.60	4.10	4.60	4.60	5.60	5.35	6.35	7.35
Agate Enam. (Gray) inside and out.....Each	4.60	5.10	5.60	5.60	6.60	6.35	7.35	8.35
Crystal Enam. (Lgt. Gray) in. and out.....Each	4.85	5.35	5.85	5.85	6.85	6.60	7.60	8.60
White Enameled (Blue outside).....Each	5.35	5.85	6.60	6.60	7.60	7.35	8.35	9.35

Plug strainers will be supplied with sinks when ordered.

For sinks with couplings threaded for 1 1/2 inch iron pipe, add 20 cents

WITH IMPROVED BRASS STRAINER COUPLING FOR LEAD OR IRON PIPE.

No.	010	015	020	025	030	040	050	060
Width.....Inches	16	18	18	20	18	20	20	20
Length.....Inches	24	24	30	20	36	30	36	40
Depth.....Inches	6	6	6	6	6	6	6	6
Plain.....Each	2.85	3.10	3.35	3.35	3.85	3.60	4.35	5.10
Painted inside and out.....Each	3.10	3.35	3.60	3.60	4.35	4.10	4.85	5.60
Galvanized inside and out.....Each	3.60	3.85	4.35	4.35	5.10	4.85	5.60	6.35
Blue Enameled inside and out.....Each	4.60	5.10	5.60	5.60	6.60	6.35	7.35	8.35
Agate Enam. (Gray) inside and out.....Each	5.60	6.10	6.60	6.60	7.60	7.35	8.35	9.35
Crystal Enam. (Lgt. Gray) in. and out.....Each	5.85	6.35	6.85	6.85	7.85	7.60	8.60	9.60
White Enameled (Blue outside).....Each	6.35	6.85	7.60	7.60	8.60	8.35	9.35	10.35

Coupling always sent for lead pipe unless otherwise ordered.

Brass plug strainer with rubber stopper will be furnished at same price as improved brass strainer.

WROUGHT STEEL KITCHEN SINKS.

WITH CAST IRON COUPLING FOR LEAD PIPE.

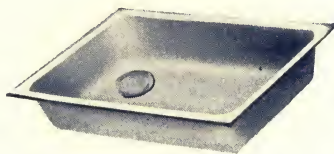


PLATE A
FLAT EDGES.

No.		1 1/2	2	2 1/2	3	4	5	6
Width.....	In.	16	18	18	20	18	20	20
Length.....	In.	24	24	30	20	36	30	36
Depth.....	In.	6	6	6	6	6	6	6
Plain.....	Ea.	1.75	2.00	2.25	2.25	2.75	2.50	3.25
Painted inside and out.....	Ea.	2.00	2.25	2.50	2.50	3.25	3.00	3.75
Galvanized inside and out.....	Ea.	2.50	2.75	3.25	3.25	4.00	3.75	4.50
Blue Enameled inside and out.....	Ea.	3.50	4.00	4.50	4.50	5.50	5.25	6.25
Agate Enam. (gray) inside and out.....	Ea.	4.50	5.00	5.50	5.50	6.50	6.25	7.25
Crystal Enam. (lgt. gray) in. and out.....	Ea.	4.75	5.25	5.75	5.75	6.75	6.50	7.50
White Enameled (blue outside).....	Ea.	5.25	5.75	6.50	6.50	7.50	7.25	8.25

Flng strainers will be supplied with sinks when ordered.

For sinks with couplings threaded for 1 1/2 inch iron pipe, add 20 cents.

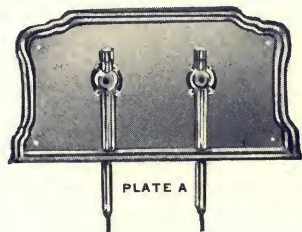
WITH IMPROVED BRASS STRAINER COUPLING FOR LEAD OR IRON PIPE.

No.		10	15	20	25	30	40	50	60
Width.....	In.	16	18	18	20	18	20	20	20
Length.....	In.	24	24	30	20	36	30	36	40
Depth.....	In.	6	6	6	6	6	6	6	6
Plain.....	Ea.	2.75	3.00	3.25	3.25	3.75	3.50	4.25	5.00
Painted inside and out.....	Ea.	3.00	3.25	3.50	3.50	4.25	4.00	4.75	5.50
Galvanized inside and out.....	Ea.	3.50	3.75	4.25	4.25	5.00	4.75	5.50	6.25
Blue Enameled inside and out.....	Ea.	4.50	5.00	5.50	5.50	6.50	6.25	7.25	8.25
Agate Enam. (gray) inside and out.....	Ea.	5.50	6.00	6.50	6.50	7.50	7.25	8.25	9.25
Crystal Enam. (lgt. gray) in. and out.....	Ea.	5.75	6.25	6.75	6.75	7.75	7.50	8.50	9.50
White Enameled (blue outside).....	Ea.	6.25	6.75	7.50	7.50	8.50	8.25	9.25	10.25

Coupling always sent for lead pipe unless otherwise ordered.

Brass plug strainer with rubber stopper will be furnished at same price as improved brass strainer.

WROUGHT STEEL SINK BACKS. WITH AIR CHAMBER THREADED FOR 3-4 INCH BIBES



Air Chambers are made of Malleable and Wrought Iron, covered with Ornamental White Metal, as illustrated above.

		With One Air Chamber				With Two Air Chamber			
No.....		4	5	7	9	8	10	20	30
Width.....	In.	20	24	30	36	20	24	30	36
Plain.....	Ea.	3.00	3.10	3.25	3.40	5.00	5.10	5.25	5.40
Painted.....	Ea.	3.20	3.30	3.60	4.00	5.20	5.30	5.60	6.00
Galvanized.....	Ea.	3.60	3.80	4.10	4.50	5.60	5.80	6.10	6.50
Blue Enameled.....	Ea.	3.80	4.20	4.60	5.20	5.80	6.20	6.60	7.20
Agate Enameled (gray).....	Ea.	4.00	4.30	4.70	5.30	6.00	6.30	6.70	7.30
Crystal Enameled (light gray).....	Ea.	4.20	4.50	4.90	5.50	6.20	6.50	6.90	7.50
White Enameled.....	Ea.	4.50	5.00	5.50	6.25	6.50	7.00	7.75	8.50

Nickel-plated air chambers, list 60 cents extra each.

WROUGHT STEEL BACKS. WITHOUT AIR CHAMBERS.



PLATE B

No.....		0	1	2	3
Width.....	In.	20	24	30	36
Plain.....	Ea.	1.00	1.10	1.25	1.40
Painted.....	Ea.	1.20	1.30	1.60	2.00
Galvanized.....	Ea.	1.60	1.80	2.10	2.50
Blue Enameled.....	Ea.	1.90	2.20	2.60	3.20
Agate Enameled (gray).....	Ea.	2.00	2.30	2.70	3.30
Crystal Enameled (light gray).....	Ea.	2.20	2.50	2.90	3.50
White Enameled.....	Ea.	2.50	3.00	3.50	4.25

Backs with two holes always supplied unless ordered with one.

CAST IRON SQUARE KITCHEN SINKS.

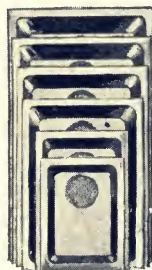


PLATE A

Length, Inches	Width, Inches	Depth, Inches	Plain	Galvanized	Enameled	Length, Inches	Width, Inches	Depth, Inches	Plain	Galvanized	Enameled
16	12	6	1.10	2.30	2.25	30	12	6	2.00	4.25	.....
16	16	6	1.60	3.25	2.65	30	16	6	2.25	4.75	3.90
18	12	6	1.25	2.60	2.40	30	18	6	2.50	5.10	4.25
18	16	6	1.60	3.50	.....	30	20	6	3.00	6.25	4.50
18	18	6	1.80	3.80	.....	32	18	6	3.00	6.25	4.65
20	12	6	1.50	3.10	2.65	32	21	6	3.40	7.20	.....
20	14	6	1.50	3.20	3.00	34	20	6	3.00	6.50	.....
20	16	6	1.60	3.50	3.15	36	16	6	2.75	6.15	.....
20	20	6	1.95	4.20	.....	36	18	6	3.00	6.50	4.75
22	14	6	1.60	3.30	3.10	36	20	6	3.70	7.75	5.25
23	15	6	1.70	3.40	3.15	36	21	6	3.70	7.75	.....
24	14	6	1.70	3.75	3.15	36	22	6	3.70	7.75	.....
24	15	6	1.75	3.90	.....	38	19	6	3.80	8.00	5.50
24	16	6	1.80	4.00	3.25	38	20	6	3.80	8.00	5.50
24	17	6	1.95	4.20	.....	40	20	6	4.00	8.75	5.75
24	18	6	2.10	4.30	3.50	41	22	6	4.25	9.00	.....
24	20	6	2.40	5.00	3.75	42	18	6	4.25	9.00	.....
25 1/2	15 1/2	6	1.75	3.60	.....	42	20	6	4.25	9.00	6.00
25	17	6	2.10	4.30	.....	42	22	6	4.25	9.00	6.25
27	15	6	2.00	4.25	3.65	48	20	6	5.30	11.50	6.75
28	16	6	2.10	4.50	3.75	48	22	6	5.75	12.25	.....
28	17	6	2.20	4.50	3.75	48	23	6	5.75	12.25	7.50
28	20	6	2.70	5.50	4.00	48	24	6	5.75	12.25	7.75

Add for patent overflow..... Plain, 1.00; Galvanized, 1.00; Enameled, 1.50

Add for patent overflow and plug

strainer..... Plain, 1.25; Galvanized, 1.25; Enameled, 2.00



PLATE A

IRON SINK TRAPS.

FOR IRON OR LEAD PIPE CONNECTIONS.

Half "S".....	Each,	1.25
Three-quarter "S".....	Each,	1.25
Full "S".....	Each,	1.25



PLATE B

SINK BOLTS.

Iron.....	Per Dozen,	.40
Brass.....	Per Dozen,	1.00
Brass, Nickel-plated.....	Per Dozen,	1.25



PLATE C

SINK STRAINERS.

OPEN.

Painted.....	Per Dozen,	1.50
Galvanized.....	Per Dozen,	2.60
Enameled.....	Per Dozen,	3.00



PLATE D

SINK STRAINERS.

WITH PLUG.

Painted.....	Per Dozen,	3.25
Galvanized.....	Per Dozen,	5.00
Enameled.....	Per Dozen,	6.00



PLATE E

SINK COUPLINGS.

FOR LEAD PIPE.

Painted.....	Per Dozen,	1.50
Galvanized.....	Per Dozen,	2.00



PLATE F

SINK COUPLINGS.

FOR IRON PIPE.

Painted.....	Per Dozen,	9.00
Galvanized.....	Per Dozen,	10.80

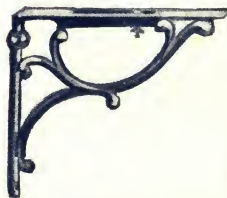


PLATE G

ADJUSTABLE SINK BRACKETS.

SUITABLE FOR ALL SIZE STEEL SINKS.

		Plain	Galvanized
No. 1.	For sinks up to 14 in. wide.....	.60	1.00
No. 2.	For sinks up to 18 in. wide.....	.75	1.25
No. 3.	For sinks up to 24 in. wide.....	1.25	2.00



HYDRANT CESS-POOLS.

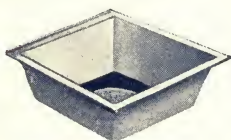


PLATE A

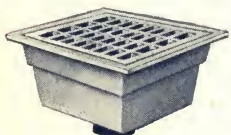
PLATE B
WITH BELL TRAP.

PLATE C

	Plain	Galvanized
10 x 10 x 6 in. deep.....	.90	1.40
12 x 12 x 6 in. deep.....	1.00	1.50
14 x 14 x 6 in. deep.....	1.15	1.75
16 x 16 x 6 in. deep.....	1.30	1.95
18 x 18 x 6 in. deep.....	1.60	2.50
	Plain	Galvanized
10 x 10 x 6 in. deep.....	1.40	2.10
12 x 12 x 6 in. deep.....	1.50	2.25
14 x 14 x 6 in. deep.....	1.65	2.50
16 x 16 x 6 in. deep.....	1.80	2.75
18 x 18 x 6 in. deep.....	2.10	3.25

All have 2- in. bottom outlets.

LARGE CESS-POOLS.
WITH BELL TRAP AND GRATING.

	Painted	Galvanized
12 x 12 x 10 in. deep.....	3.75	7.50
12 x 15 x 10 in. deep.....	4.00	8.00
15 x 15 x 10 in. deep.....	4.25	9.00
16 x 16 x 10 in. deep.....	4.50	10.00
18 x 18 x 10 in. deep.....	10.00	20.00

PLAIN CESS-POOLS.



PLATE D

	Stand-ard	Extra Heavy	All Brass Polished Top with Raised Rim
6 x 6 in., 2-in. outlet.....	.75	1.25	.....
9 x 9 in., 3-in. outlet.....	1.00	1.50	.....
9 1/2 x 9 1/2 in., 4-in. outlet.....	1.25	2.00	.....
10 x 10 in., 4-in. outlet.....	1.50	2.75	8.50
12 x 12 in., 4-in. outlet.....	2.00	3.25	10.00
13 x 13 in., 4-in. outlet.....	2.50	3.75	.....
14 x 14 in., 4-in. outlet.....	2.75	4.00	.....

All brass polished top 6 x 6 in., with 2 in. outlet.....4.00

BELL TRAP CESS-POOLS.

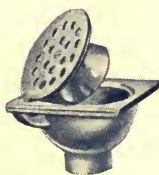


PLATE E

	Stand-ard	Extra Heavy
6 x 6 in., 2-in. outlet.....	1.00	1.50
8 x 8 in., 3-in. outlet.....	1.25	1.75
9 x 9 in., 3-in. outlet.....	1.35	1.85
9 1/2 x 9 1/2 in., 4-in. outlet.....	1.60	2.25
10 x 10 in., 4-in. outlet.....	2.00	3.00
12 x 12 in., 4-in. outlet.....	2.50	3.50
13 x 13 in., 4-in. outlet.....	3.00	4.25
13 x 13 in., 5-in. outlet.....	3.50	4.75



SOAPSTONE LAUNDRY TRAYS.

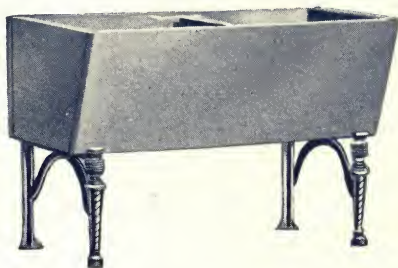


PLATE A

CEMENT LAUNDRY TRAYS.

WITH PATENT METALLIC CASING AND TWIN WASTE CONNECTIONS.

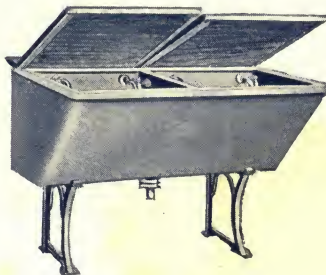


PLATE B

PRICES ON APPLICATION.

GROUND BIBBS FOR LEAD OR IRON PIPE. CAST HANDLE



PLATE A
LEAD PIPE



PLATE B
IRON PIPE, WITH SHOULDER



PLATE C
IRON PIPE, S. O. T.

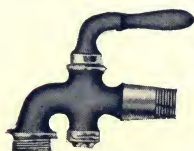


PLATE D
IRON PIPE, S. O. T.
FOR HOSE



PLATE E
IRON PIPE, WITH SHOULDER
FOR HOSE



PLATE F
SCREWED, FOR WOOD

PLATE A OR B

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per doz.	16.20	17.40	18.60	25.80	30.60	42.00	70.20	105.00	186.00
Finished.....Per doz.	20.40	21.60	22.80	30.60	36.60	51.00	82.20	123.00	210.00
Nickel-Plated...Per doz.	24.60	25.80	27.00	35.40	42.60	60.00	94.20	141.00	234.00
Add for Hose Ends..doz.		2.40	2.40	2.40	2.40	4.20	6.00	9.00	12.00

PLATE C

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per doz.	18.00	19.20	20.40	28.80	34.80	48.00	79.20	117.00	210.00
Finished.....Per doz.	22.20	23.40	24.60	33.60	40.80	57.00	91.20	135.00	234.00
Nickel-Plated..Per doz.	26.40	27.60	28.80	38.40	46.80	66.00	103.20	153.00	258.00

PLATE D

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per doz.		21.60	22.80	31.20	37.20	54.00	88.20	129.00	228.00
Finished.....Per doz.		25.80	27.00	36.00	43.20	63.00	100.20	147.00	252.00
Nickel-Plated..Per doz.		30.00	31.20	40.80	49.20	72.00	112.20	165.00	276.00

PLATE E

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per doz.		19.80	21.00	28.20	33.00	48.00	79.20	117.00	204.00
Finished.....Per doz.		24.00	25.20	33.00	39.00	57.00	91.20	135.00	228.00
Nickel-Plated..Per doz.		28.20	29.40	37.80	45.00	66.00	103.20	153.00	252.00

PLATE F

Size.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per doz.	18.00	19.20	20.40	28.80	34.80	48.00	79.20	117.00	210.00
Finished.....Per doz.	22.20	23.40	24.60	33.60	40.80	57.00	91.20	135.00	234.00
Nickel-Plated..Per doz.	26.40	27.60	28.80	38.40	46.80	66.00	103.20	153.00	258.00
Add for Hose Ends..doz.		2.40	2.40	2.40	2.40	6.00	9.00	12.00	18.00



LEVER HANDLE STOPS AND STOP AND WASTES.

FOR IRON PIPE



PLATE A
STOP, NUT AND WASHER

PLATE A

PLATE B
STOP AND WASTE, NUT AND WASHER

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....Per dozen	16.20	17.40	18.60	25.80	30.60	42.00
Finished Stop.....Per dozen	20.40	21.60	22.80	30.60	36.60	51.00
Nickel-Plated Stop.....Per dozen	24.60	25.80	27.00	35.40	42.60	60.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....Per dozen	70.20	105.00	186.00	288.00	402.00	.....

PLATE B

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste.....Per dozen	16.80	18.00	19.20	26.40	31.20	43.20
Finished Stop and Waste.....Per dozen	21.00	22.20	23.40	31.20	37.20	52.20
Nickel-Plated Stop and Waste.....Per dozen	25.20	26.40	27.60	36.00	43.20	61.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste.....Per dozen	72.00	108.00	192.00	300.00	420.00	.....

FOR LEAD AND IRON PIPE



PLATE C
LEAD AND IRON PIPE STOP
NUT AND WASHER

PLATE D
LEAD AND IRON PIPE STOP AND WASTE,
NUT AND WASHER

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....Per dozen	16.20	17.40	18.60	25.80	30.60	42.00
Finished Stop.....Per dozen	20.40	21.60	22.80	30.60	36.60	51.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....Per dozen	70.20	105.00	186.00	288.00	402.00	.....

PLATE D

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste.....Per dozen	16.80	18.00	19.20	26.40	31.20	43.20
Finished Stop and Waste.....Per dozen	21.00	22.20	23.40	31.20	37.20	52.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste.....Per dozen	72.00	108.00	192.00	300.00	420.00	.....

T HANDLE ROUGH STOPS AND STOP AND WASTES. FOR LEAD PIPE



PLATE A
STOP, NUT AND WASHER

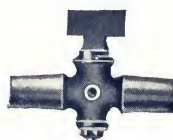


PLATE B
STOP AND WASTE, NUT AND WASHER

PLATE A

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....Per dozen	16.20	17.40	18.60	25.80	30.60	42.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....Per dozen	70.20	105.00	186.00	288.00	402.00	.....

PLATE B

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste.....Per dozen	16.80	18.00	19.20	26.40	31.20	43.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste.....Per dozen	72.00	108.00	192.00	300.00	420.00	.....



PLATE C
ROUND-WAY STOP



PLATE D
ROUND-WAY STOP AND WASTE

PLATE C

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Rough Stop.....Per dozen	19.80	21.60	23.40	31.20	39.60
Sizes.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	..
Rough Stop.....Per dozen	60.00	97.20	141.00	252.00	.....

PLATE D

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Rough and Stop Waste.....Per dozen	20.40	22.20	24.00	31.80	40.20
Sizes.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	..
Rough and Stop Waste.....Per dozen	61.20	99.00	144.00	258.00	.....

T HANDLE STOPS AND STOP AND WASTE.

FOR LEAD AND IRON PIPE

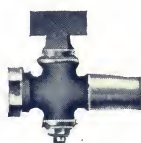


PLATE A
STOP,
NUT AND WASHER



PLATE B
STOP AND WASTE
NUT AND WASHER



PLATE C
ROUND-WAY, STOP,
NUT AND WASHER

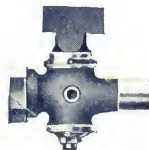


PLATE D
ROUND-WAY, STOP
AND WASTE, NUT AND
WASHER

PLATE A

Sizes.....	Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....	Per dozen	16.20	17.40	18.60	25.80	30.60	42.00
Sizes.....	Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....	Per dozen	70.20	105.00	186.00	288.00	402.00	.....
Sizes.....	Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished Stop.....	Per dozen	20.40	21.60	22.80	30.60	36.60	51.00

PLATE B

Sizes.....	Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste.....	Per dozen	16.80	18.00	19.20	26.40	31.20	43.20
Sizes.....	Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste.....	Per dozen	72.00	108.00	192.00	300.00	420.00	.....
Sizes.....	Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished Stop and Waste.....	Per dozen	21.00	22.20	23.40	31.20	37.20	52.20

PLATE C

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop.....	Per dozen	23.40	31.20	39.60	60.00	97.20	141.00	252.00
Finished Stop.....	Per dozen	27.60	36.00	45.60	69.00	.....	.....	.....

PLATE D

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste.....	Per dozen	24.00	31.80	40.20	61.20	99.00	144.00	258.00
Finished Stop and Waste.....	Per dozen	28.20	36.60	46.20	70.20	.....	.....	.....
Sizes.....	Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	..
Add for Coarse Thread for Wood on Lead End, Rough.....	Per dozen	1.80	1.80	1.80	3.00	4.20	6.00	.....
Sizes.....	Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..	..
Add for Coarse Thread for Wood on Lead End, Rough.....	Per dozen	9.00	12.00	24.00	36.00	51.00	.....	.....

T HANDLE STOPS AND STOP AND WASTE.

FOR IRON PIPE. NUT AND WASHER.



PLATE A
IRON PIPE STOP



PLATE B
IRON PIPE STOP,
AND WASTE



PLATE C
ROUND-WAY,
IRON PIPE STOP



PLATE D
ROUND-WAY, IRON
PIPE, STOP AND WASTE

PLATE A

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....Per dozen	16.20	17.40	18.60	25.80	30.60	42.00
Finished Stop.....Per dozen	20.40	21.60	22.80	30.60	36.60	51.00
Nickel-Plated Stop.....Per dozen	24.60	25.80	27.00	35.40	42.60	60.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	
Rough Stop.....Per dozen	70.20	105.00	186.00	288.00	402.00	

PLATE B

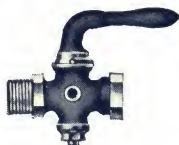
Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste.....Per dozen	16.80	18.00	19.20	26.40	31.20	43.20
Finished Stop and Waste.....Per dozen	21.00	22.20	23.40	31.20	37.20	52.20
Nickel-Plated Stop and Waste.....Per dozen	25.20	26.40	27.60	36.00	43.20	61.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	
Rough Stop and Waste.....Per dozen	72.00	108.00	192.00	300.00	420.00	

PLATE C

Sizes.....Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop.....Per dozen	23.40	31.20	39.60	60.00	97.20	141.00	252.00
Finished Stop.....Per dozen	27.60	36.00	45.60	69.00			
Nickel-Plated Stop.....Per dozen	31.80	40.80	51.60	78.00			

PLATE D

Sizes.....Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste....Per dozen	24.00	31.80	40.20	61.20	99.00	144.00	258.00
Finished Stop and Waste..Per dozen	28.20	36.60	46.20	70.20			
Nickel-Plated stop and waste..Per doz.	32.40	41.40	52.20	79.20			

**ROUGH STOPS AND STOP AND WASTES.****MALE AND FEMALE IRON PIPE.****LEVER HANDLE****PLATE A**
STOP, NUT AND WASHER**PLATE B**
STOP AND WASTE, NUT AND WASHER**PLATE A**

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....	19.80	21.00	22.20	30.60	35.40	48.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....	79.20	120.00	210.00	324.00	450.00	.....

PLATE B

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste....	20.40	21.60	22.80	31.20	36.00	49.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste....	81.00	123.00	216.00	336.00	468.00	.....

T HANDLE**PLATE C**
STOP, NUT AND WASHER**PLATE D**
STOP AND WASTE, NUT AND WASHER**PLATE C**

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop.....	19.80	21.00	22.20	30.60	35.40	48.00
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop.....	79.20	120.00	210.00	324.00	450.00	.....

PLATE D

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough Stop and Waste....	20.40	21.60	22.80	31.20	36.00	49.20
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	..
Rough Stop and Waste....	81.00	123.00	216.00	336.00	468.00	.....

LEVER HANDLE STOPS AND STOP AND WASTE.

FOR LEAD AND IRON PIPE. NUT AND WASHER.

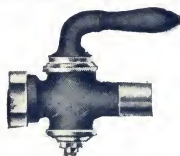


PLATE A
ROUND-WAY, STOP



PLATE B
ROUND-WAY, STOP AND WASTE

PLATE A

Sizes.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop..... Per Doz.	23.40	31.20	39.60	60.00	97.20	141.00	252.00
Finished Stop..... Per Doz.	27.60	36.00	45.60	69.00			

PLATE B

Sizes.....Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste.. Per Doz.	24.00	31.80	40.20	61.20	99.00	144.00	258.00
Fin'd Stop and Waste.. Per Doz.	28.20	36.60	46.20	70.20			
Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	
Add for coarse thread for wood on lead end, rough..... Per Doz.	1.80	1.80	1.80	3.00	4.20	6.00	
Sizes.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3		
Add for coarse thread for wood on lead end, rough..... Per Doz.	9.00	12.00	24.00	36.00	51.50		

ROUGH STOPS AND STOP AND WASTE.

NUT AND WASHER

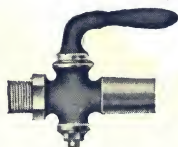


PLATE C
LEAD AND MALE IRON PIPE STOP.

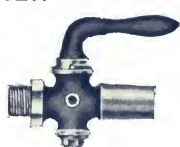


PLATE D
LEAD AND MALE IRON PIPE STOP AND WASTE

PLATE C

Sizes.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Rough St.	19.80	21.00	22.20	30.60	35.40	48.00	79.20	120.00	210.00	324.00	450.00

PLATE D

Sizes.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Rough S'p and Waste	20.40	21.60	22.80	31.20	36.00	49.20	81.00	123.00	216.00	336.00	468.00

T handle, same price. Both ends male, iron pipe, same price.

ROUND-WAY STOPS AND STOP AND WASTE.

NUT AND WASHER



PLATE A
LEVER HANDLE STOP
BOTH ENDS IRON PIPE

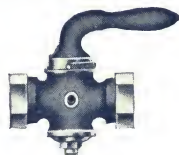


PLATE B
LEVER HANDLE STOP AND WASTE,
BOTH ENDS IRON PIPE

PLATE A

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop.....Per Doz.	23.40	31.20	39.60	60.00	97.20	141.00	252.00

PLATE B

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste.....Per Doz.	24.00	31.80	40.20	61.20	99.00	144.00	258.00



PLATE C
LEVER HANDLE STOP
BOTH ENDS IRON PIPE

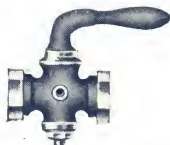


PLATE D
LEVER HANDLE STOP AND WASTE
BOTH ENDS IRON PIPE

PLATE C

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished Stop.....Per Doz.		25.80	27.60	36.00	45.60
Nickel-Plated Stop.....Per Doz.		30.00	31.80	40.80	51.60
Sizes.....Inches		1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished Stop.....Per Doz.		69.00	109.20	159.00	276.00
Nickel-Plated Stop.....Per Doz.		78.00	121.20	177.00	300.00

PLATE D

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished Stop and Waste.....Per Doz.		26.40	28.20	36.60	46.20
Nickel-Plated Stop and Waste.....Per Doz.		30.60	32.40	41.40	52.20
Sizes.....Inches		1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished Stop and Waste.....Per Doz.		70.20	111.00	162.00	282.00
Nickel-plated Stop and Waste.....Per Doz.		79.20	123.00	180.00	306.00



PLATE A
LEAD PIPE

COMPRESSION BIBBS



PLATE B
IRON PIPE WITH SHOULDER

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per Doz.	12.60	13.20	13.80	19.20	25.20	45.00	87.00	114.00	228.00
Finished.....Per Doz.	13.20	13.80	14.40	20.40	26.40	48.00	90.00	120.00	240.00
Nickel-Plated...Per Doz.	16.20	16.80	17.40	23.40	30.00	52.80	99.00	132.00	264.00

With fine thread, same list as above.



PLATE C
LEAD PIPE FOR HOSE



PLATE D
IRON PIPE, WITH SHOULDER, FOR HOSE

PLATE C OR D

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per Doz.	15.60	16.20	21.60	27.60	51.00	96.00	126.00	246.00
Finished.....Per Doz.	16.20	16.80	22.80	28.80	54.00	99.00	132.00	258.00
Nickel-Plated..Per Doz.	19.20	19.80	25.80	32.40	58.80	108.00	144.00	282.00

With fine thread, same list as above.



PLATE E
IRON PIPE S. O. T.

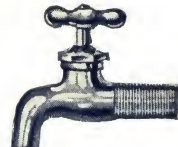


PLATE F
SCREWED FOR WOOD

PLATE E OR F

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough.....Per Doz.	14.40	15.00	15.60	22.20	29.40	51.00	96.00	126.00	252.00
Finished.....Per Doz.	15.00	15.60	16.20	23.40	30.60	54.00	99.00	132.00	264.00
Nickel-Plated..Per Doz.	18.00	18.60	19.20	26.40	34.20	58.80	108.00	144.00	288.00

With fine thread, same list as above.

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Add for Hose End.....Per Doz.	2.40	2.40	2.40	2.40	2.40	6.00	9.00	12.00	18.00

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Pittsburgh or Other Special Gauge Hose Bibbs, add..Per Doz.	1.80	1.80	1.80	1.80

Sizes.....Inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Add for Stuffing-Box.....	2.40	2.40	3.00	3.60	4.80	9.00	15.00	18.00	27.00



COMPRESSION BIBBS



PLATE A
IRON PIPE WITH FLANGE
O. S. THREAD



PLATE B
IRON PIPE WITH FLANGE, O. S.
THREAD, FOR HOSE



PLATE C
LEAD PIPE, FLANGE AND
THIMBLE

PLATE A

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		18.60	19.20	26.40	33.60	58.80
Nickel-Plated.....Per Doz.		21.60	22.20	29.40	37.20	63.60

PLATE B

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		21.00	21.60	28.80	36.00	64.80
Nickel-Plated.....Per Doz.		24.00	24.60	31.80	39.60	69.60

PLATE C

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		21.00	21.60	29.40	37.20	64.20
Nickel-Plated.....Per Doz.		24.00	24.60	32.40	40.80	69.00



PLATE D
IRON PIPE WITH FLANGE AND
THIMBLE



PLATE E
IRON PIPE, WITH FLANGE
O. S. THREAD,



PLATE F
IRON PIPE WITH FLANGE.
O. S. THREAD FOR HOSE

PLATE D

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		22.80	23.40	32.40	41.40	70.20
Nickel-Plated.....Per Doz.		25.80	26.40	35.40	45.00	75.00
Add for Hexagon in Front of Flange.....Per Doz.		2.40	2.40	2.40	2.40	4.20
Add for Hose End.....Per Doz.		2.40	2.40	2.40	2.40	6.00
Pittsburgh or Other Special Gauge Hose Bibbs, add.....Per Doz.		1.80	1.80	1.80	1.80	.....
Add for Stuffing-Box.....		2.40	3.00	3.60	4.80	9.00

PLATE E

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		18.60	19.20	26.40	33.60	58.80
Nickel-Plated.....Per Doz.		21.60	22.20	29.40	37.20	63.60

PLATE F

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.		21.00	21.60	28.80	36.00	64.80
Nickel-Plated.....Per Doz.		24.00	24.60	31.80	39.60	69.60

COMPRESSION STOPS AND STOP AND WASTES.



PLATE A
STOP, LEAD AND IRON PIPE



PLATE B
STOP, LEAD PIPE

PLATE A OR B

Sizes.....Inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Rough.....Per Doz.		11.40	12.00	14.40	19.80	26.40
Finished.....Per Doz.		12.00	12.60	15.00	21.00	27.60
Nickel-Plated.....Per Doz.		15.00	15.60	18.00	24.00	31.20
Add for Male End, Plate A.....Per Doz.		2.40	2.40	2.40	2.40	2.40
Sizes.....Inches		1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	
Rough.....Per Doz.		45.00	87.00	114.00	228.00	
Finished.....Per Doz.		48.00	90.00	120.00	240.00	
Nickel-Plated.....Per Doz.		52.80	99.00	132.00	264.00	
Add for Male End, Plate A.....Per Doz.		4.20	6.00	9.00	12.00	



PLATE C
STOP, BOTH ENDS IRON PIPE



PLATE D
STOP AND WASTE, BOTH ENDS IRON PIPE

PLATE C

Sizes.....Inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Rough.....Per Doz.		11.40	12.00	14.40	19.80	26.40
Finished.....Per Doz.		12.00	12.60	15.00	21.00	27.60
Nickel-Plated.....Per Doz.		15.00	15.60	18.00	24.00	31.20
Add Each Male End.....Per Doz.		2.40	2.40	2.40	2.40	2.40
Sizes.....Inches		1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	
Rough.....Per Doz.		45.00	87.00	114.00	228.00	
Finished.....Per Doz.		48.00	90.00	120.00	240.00	
Nickel-Plated.....Per Doz.		52.80	99.00	132.00	264.00	
Add Each Male End.....Per Doz.		4.20	6.00	9.00	12.00	
Sizes.....Inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Add for Stuffing-Box.....		2.40	2.40	3.00	4.80	9.00
						15.00
						18.00
						27.00

PLATE D

Sizes.....Inches		$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough, Stuffing-Box included.....Per Doz.		22.80	23.40	28.80	36.00	57.00
Finished, Stuffing-Box included.....Per Doz.		23.40	24.00	30.00	37.20	60.00
Nickel-Plated, Stuffing-Box incl.....Per Doz.		26.40	27.00	33.00	40.80	64.80
Add for Wheel Handle.....Per Doz.		3.60	4.20	4.80	5.40	9.00
Add for Slip Joint, either end.....Per Doz.		2.40	3.00	3.60	4.80	7.20

FLAT-WAY PATENT GUARD OR CAP STOPS AND STOP AND WASTE COCKS.

RIGHT OR LEFT HAND, T OR LEVER HANDLE OR SOCKET.
NUT AND WASHER.



PLATE A
IRON PIPE STOP.



PLATE B
LEAD AND IRON PIPE STOP.

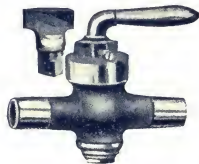


PLATE C
LEAD PIPE STOP.

PLATE A, B OR C

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop.....Per Dozen	17.40	18.60	25.80	30.60	42.00	70.20	105.00	186.00
Finished Stop.....Per Dozen	21.60	22.80	30.60	36.60	51.00	82.20	123.00	210.00
Nickel-plated Stop...Per Dozen	25.80	27.00	35.40	42.60	60.00	94.20	141.00	234.00



PLATE D
IRON PIPE
STOP AND WASTE



PLATE E
LEAD AND IRON PIPE
STOP AND WASTE.

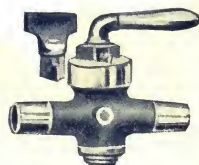


PLATE F
LEAD PIPE
STOP AND WASTE.

PLATE D, E OR F

Size.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste...Dozen	18.00	19.20	26.40	31.20	43.20	72.00	108.00	192.00
Finished Stop and WasteDozen	22.20	23.40	31.20	37.20	52.20	84.00	126.00	216.00
N. P. Stop and Waste....Dozen	26.40	27.60	36.00	43.20	61.20	96.00	144.00	240.00



ROUND-WAY PATENT GUARD OR CAP STOPS AND STOP AND WASTES.

RIGHT OR LEFT HAND, T OR LEVER HANDLE OR SOCKET.
NUT AND WASHER.



PLATE A
IRON PIPE STOP.



PLATE B
LEAD AND IRON PIPE STOP.



PLATE C
LEAD PIPE STOP.

PLATE A, B OR C

Size.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop.....Per Dozen	23.40	31.20	39.60	60.00	97.20	141.00	252.00
Finished Stop.....Per Dozen	27.60	36.00	45.60	69.00	109.20	159.00	276.00
Nickel-plated Stop.....Per Dozen	31.80	40.80	51.60	78.00	121.20	177.00	300.00

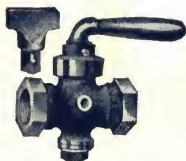


PLATE D
IRON PIPE
STOP AND WASTE.

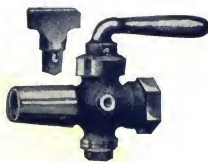


PLATE E
LEAD AND IRON PIPE
STOP AND WASTE.



PLATE F
LEAD PIPE
STOP AND WASTE.

PLATE D, E OR F

Size.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste...Per Dozen	24.00	31.80	40.20	61.20	99.00	144.00	258.00
Finished Stop and Waste...Per Dozen	28.20	36.60	46.20	70.20	111.00	162.00	282.00
N.-P. Stop and Waste....Per Dozen	32.40	41.40	52.20	79.20	123.00	180.00	306.00



COMPRESSION SILL COCKS.



PLATE A



PLATE B



PLATE C



PLATE D

PLATE A

Size $\frac{1}{2}$ or $\frac{3}{4}$ inch	Finished	Nickel-Plated
T Handle with Shoulder.....	20.40	24.00
Wheel Handle with Shoulder.....	25.80	29.40
Loose Key with Shoulder.....	30.60	34.20

PLATE B

Size $\frac{1}{2}$ or $\frac{3}{4}$ inch	Finished	Nickel-Plated
T Handle with Flange.....	24.60	28.20
Wheel Handle with Flange.....	30.00	33.60
Loose Key with Flange.....	34.80	38.40

PLATE C

Size $\frac{1}{2}$ or $\frac{3}{4}$ inch	Finished	Nickel-Plated
T Handle with Flange.....	24.60	28.20
Wheel Handle with Flange.....	30.00	33.60
Loose Key with Flange.....	34.80	38.40

PLATE D

Size $\frac{1}{2}$ or $\frac{3}{4}$ inch	Finished	Nickel-Plated
T Handle with Flange.....	26.40	30.00
Wheel Handle with Flange.....	31.80	35.40
Loose Key with Flange.....	36.60	40.20

One key furnished with each loose key pattern cock.

No. 0



PLATE A

COMPRESSION BASIN COCKS.

No. 1



PLATE B

PLATE A

Finished or Nickel-Plated

T Handle.....	Per Dozen,	18.00
Cross Handle.....	Per Dozen,	19.00
Add for Stuffing Box.....	Per Dozen,	3.00

PLATE B

Finished or Nickel-Plated

T Handle.....	Per Dozen,	21.00
Cross Handle.....	Per Dozen,	22.80
Add for Stuffing Box.....	Per Dozen,	3.00

No. 2



PLATE C

Finished or Nickel-Plated

T Handle.....	Per Dozen,	22.80
Cross Handle.....	Per Dozen,	24.60
Add for Stuffing Box.....	Per Dozen,	3.00

No. 8



PLATE D

No. 9



PLATE E

PLATE D

Finished or Nickel-Plated

T Handle.....	Per Dozen,	30.00
Cross Handle.....	Per Dozen,	31.80

PLATE E

With China Scalp Handle.....	Per Dozen,	36.00
Add for China Scalp Handles to T Handle List.....	Per Dozen,	12.00
Add for Stuffing Box.....	Per Dozen,	3.00

COMPRESSION COCKS.

COMPRESSION PANTRY COCKS.



PLATE A



PLATE B

PLATE A

T Handle, Finished or N. P. Doz.,	36.00
Cross Handle, Finished or N. P. Doz.,	37.80
Add for Hose End. Doz.,	3.00
Add for Stuffing Box. Doz.,	3.00

PLATE B

Cross Handle, Fin. or N. P. Each,	10.00
Add for Hose End. Each,	.25
Add for Stuffing Box. Each,	.50
Add for China Scalp Handles Doz.,	12.00

COMPRESSION DOUBLE BATH COCKS.



PLATE C

WITH CHINA SCALP HANDLES.

Finished or N. P. $\frac{1}{2}$ in. size,	
$3\frac{3}{8}$ in. Center to Center. . Each,	6.15
Finished or N. P. $\frac{1}{2}$ in. size,	
$4\frac{1}{4}$ in. Center to Center. . Each,	6.95
Add for Jewel Cup. Each,	.60
Add for $\frac{3}{8}$ -in. Couplings. . Each,	.60

COMPRESSION DOUBLE BATH COCKS

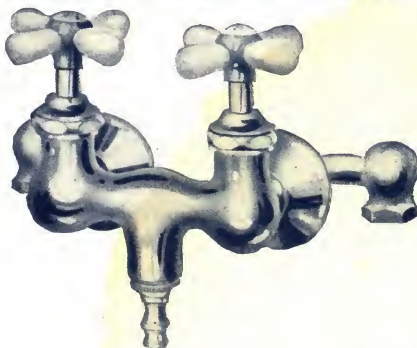


PLATE D

Nickel Plated $\frac{1}{2}$ inch pipe, China Handles. Each,	4.00
--	------



FULLER BIBBS.



PLATE A
LEAD PIPE



PLATE B
LEAD PIPE, FOR HOSE

PLATE A

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Dozen	21.00	27.00	36.00	72.00
Nickel-Plated.....	Per Dozen	25.20	31.20	42.00	80.40

PLATE B

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Dozen	25.20	31.20	40.20	80.40
Nickel-Plated.....	Per Dozen	29.40	35.40	46.20	88.80



PLATE C
IRON PIPE, WITH SHOULDER



PLATE D
IRON PIPE, WITH SHOULDER, FOR HOSE

PLATE C

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Dozen	21.00	27.00	35.00	72.00
Nickel-Plated.....	Per Dozen	25.20	31.20	42.00	80.40

PLATE D

Sizes.....	Inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Dozen	25.20	31.20	40.20	80.40
Nickel-Plated.....	Per Dozen	29.40	35.40	46.20	88.80

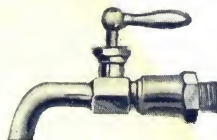


PLATE E
SINK BIBBS, IRON PIPE, WITH SHOULDER

		$\frac{3}{4}$ In.
Finished.....	Per Dozen,	50.40
Nickel-Plated.....	Per Dozen,	56.40
If with Flange Nut and Thimble, add.....	Per Dozen,	20.00
Finished, with Flange, Long Thimble and Lock Nut.....	Per Dozen,	81.00
Nickel-Plated, with Flange, Long Thimble and Lock Nut.....	Per Dozen,	88.80



PLATE A
IRON PIPE, O. S. THREAD

FULLER BIBBS. FOR IRON PIPE SOLID FLANGE.



PLATE B
IRON PIPE, I. S. THREAD

PLATE A OR B

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Finished.....Per Dozen	28.80	36.60	47.40	89.40
Nickel-Plated.....Per Dozen	34.80	42.60	55.20	99.60



PLATE C
IRON PIPE, O. S. THREAD FOR HOSE



PLATE D
IRON PIPE, I. S. THREAD FOR HOSE

PLATE C OR D

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Finished.....Per Dozen	33.00	40.80	51.60	97.80
Nickel-Plated.....Per Dozen	39.00	46.80	59.40	108.00
Add for Hexagon in Front of Flange.....Per Dozen	3.00	3.00	3.00	6.00

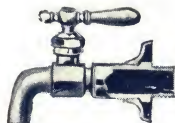


PLATE E
IRON PIPE, MALE END, BOX FLANGE



PLATE F
IRON PIPE, FEMALE, BOX FLANGE

PLATE E

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Finished.....Per Dozen	32.40	39.60	50.40	88.80
Nickel-Plated.....Per Dozen	38.40	45.60	58.20	99.00

PLATE F

Sizes.....Inches	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	1
Finished.....Per Dozen	32.40	39.60	50.40	88.80
Nickel-Plated.....Per Dozen	38.40	45.60	58.20	99.00
Add for Hose End.....Per Dozen	4.20	4.20	4.20	8.40
Pittsburgh or other Special Gauge Hose Bibbs, add.....Per Dozen	1.80	1.80	1.80	.....



FULLER BASIN COCKS.

No. 0



PLATE A

No. 0 with-Union



PLATE B

No. 1



PLATE C

No. 2



PLATE D

No. 3



PLATE E

PLATE A		
No. 0.	Finished or Nickel-Plated.....	Per Dozen, 39.00
PLATE B		
No. 0.	With Union. Finished or Nickel-Plated.....	Per Dozen, 51.00
PLATE C		
No. 1.	Finished or Nickel-Plated.....	Per Dozen, 42.00
PLATE D		
No. 2.	Finished or Nickel-Plated.....	Per Dozen, 45.00
PLATE E		
No. 3.	Finished or Nickel-Plated.....	Per Dozen, 51.00
	Add for Ebony or Ivory Handles.....	Per Dozen, 18.00
	Add for China Handles.....	Per Dozen, 19.80

FULLER DOUBLE BATH COCKS.

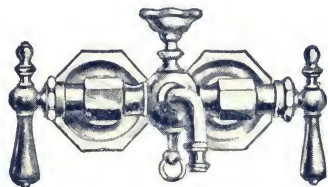


PLATE A

Nickel Plated.....	Each,	12.00
If with Ebony or Ivory Handles, add.....		2.00



PLATE B



PLATE C

Finished or Nickel Plated..	Each,	4.50	I	Finished or Nickel Plated..	Each,	4.35
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PLATE D

WITH CHINA HANDLES—"HOT" AND "COLD."

Finished or Nickel Plated, Each.....	7.80
For Gold-Lined Ring Cup, add.....	75

Fuller Bath Cocks with special spreads. Prices on application.

DOHERTY SELF-CLOSING WORK



PLATE A
PLAIN BIBB, LEAD PIPE.



PLATE B
PLAIN BIBB, IRON PIPE, WITH SHOULDER.

PLATE A OR B

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Dozen	28.20	28.80	34.80	45.60	72.00
Nickel-Plated.....Per Dozen	34.20	34.80	40.80	53.40	82.20



PLATE C
PLAIN BIBB, FLANGE
AND THIMBLE.

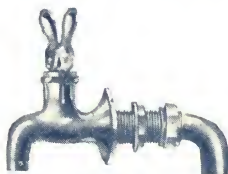


PLATE D
PLAIN BIBB, FLANGE NUT AND
BENT COUPLING.

PLATE C

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	35.40	36.00	43.80	56.40	88.20
Nickel-Plated.....Per Doz.	41.40	42.00	49.80	64.20	98.40

PLATE D

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	37.80	40.80	52.80	69.60	108.00
Nickel-Plated.....Per Doz.	43.80	46.80	58.80	77.40	118.20

LEVER HANDLE SELF-CLOSING STOP COCK.



PLATE E

Sizes.....Inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished.....Per Doz.	48.00	54.00
Nickel-Plated.....Per Doz.	54.00	60.00

DOHERTY SELF-CLOSING WORK.



PLATE A
BASIN COCK.

Finished or Nickel-Plated,

Per Dozen..... 48.00



PLATE B
PANTRY COCK.

Finished or Nickel-Plated.....	Per Dozen,	63.00
Finished or Nickel-Plated, with Hose End.....	Per Dozen,	66.00

URINAL COCKS.



PLATE C
FINISHED, NUT AND BENT COUPLING.



PLATE D
LEAD PIPE.

Finished.....	Per Doz.	36.00
Nickel-Plated.....	Per Doz.	42.00
Finished with Flange and Thimble.....	Per Doz.	44.40
Nickel-Plated with Flange and Thimble.....	Per Doz.	50.40
Finished with Flange, Nut and Bent Coupling.....	Per Doz.	50.40
Nickel-Plated with Flange, Nut and Bent Coupling....	Per Doz.	56.40

Iron pipe, same list.

PLATE C

Finished with Flange, Nut and Bent Coupling.....	Per Doz.	68.40
Nickel-Plated.....	Per Doz.	77.40
If with Adjustable Acorn Top, Flange and Thimble only, deduct...	Per Doz.	6.00



PLATE A

CROWN HANDLE WORK.

"CROWN" HANDLE SELF-CLOSING BASIN COCK

Nickel-plated

Per Dozen.....	60.00
Same with China Index, per Dozen.....	64.00



PLATE B

"CROWN" HANDLE SELF-CLOSING BIBB

FOR IRON PIPE. MADE ALSO FOR LEAD PIPE

Size.....	Inches	$\frac{1}{2}$	$\frac{3}{8}$
Finished.....	Per Dozen	34.00	37.00
Nickel-plated.....	Per Dozen	40.00	43.00
For Hose End, Add.....	Per Dozen	4.00	4.00
For China Indexes, Add.....		Per Dozen, 4.00	



PLATE C

"CROWN" HANDLE SELF-CLOSING BIBB

FLANGE AND IRON PIPE MALE

Size.....	Inches	$\frac{1}{2}$	$\frac{3}{8}$
Finished.....	Per Dozen	41.00	44.00
Nickel-plated.....	Per Dozen	47.00	50.00
If Flange and Female, Deduct.....	Per Dozen	2.00	2.00
For China Indexes, Add.....		Per Dozen, 4.00	

BOSTON OR ZANE SELF-CLOSING WORK.



PLATE A
LEAD PIPE.

BIBBS



PLATE B
IRON PIPE, WITH SHOULDER.

PLATE A OR B

Sizes.....	Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Doz.	24.60	25.20	31.20	40.80	67.20
Nickel-Plated.....	Per Doz.	30.60	31.20	37.20	48.60	77.40



PLATE C
IRON PIPE, O. S. THREAD, SOLID FLANGE.



PLATE D
LEAD PIPE, WITH FLANGE AND THIMBLE.

PLATE C

Sizes.....	Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Doz.	29.40	30.00	37.20	48.00	78.00
Nickel-Plated.....	Per Doz.	35.40	36.00	43.20	55.80	88.20

PLATE D

Sizes.....	Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....	Per Doz.	31.80	32.40	40.20	51.60	83.40
Nickel-Plated.....	Per Doz.	37.80	38.40	46.20	59.40	93.60



BOSTON OR ZANE SELF-CLOSING WORK.



PLATE A
STOP FOR LEAD PIPE.



PLATE B
STOP FOR IRON PIPE.



PLATE C
BASIN COCK, T HANDLE.

PLATE A OR B

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	23.40	25.80	31.80	42.00	67.20
Nickel-Plated.....Per Doz.	29.40	31.80	37.80	49.80	77.40

Both ends male, iron pipe or lead and iron pipe, same list.

PLATE C

Finished or Nickel-Plated.....Per Doz.	48.00
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URINAL COCKS.



PLATE D
LEAD PIPE.

Finished.....Per Doz.	32.40
Nickel-Plated.....Per Doz.	38.40
Finished with Flange and Thimble.....Per Doz.	40.80
N. P. with Flange and Thimble.....Per Doz.	46.80
Finished with F., N. and B. C., Per Doz.	46.80
Nickel-Plated with F., N. and B. C.....Per Doz.	52.80

Iron pipe, same list as Lead pipe.



PLATE E
FLANGE AND THIMBLE.

Finished.....Per Doz.	55.80
Nickel-Plated.....Per Doz.	64.80

Finished, without Adjustable Flange, Acorn Top and Union, deduct.	Per Doz. 15.00
Nickel-plated, without Adjustable Flange, Acorn Top and Union, deduct,	Per Doz. 18.00

TELEGRAPH SELF-CLOSING WORK.



PLATE A

BASIN COCK

SMALL PATTERN	LARGE PATTERN
Finished or Nickel-Plated . . . Doz. 27.00	Finished or Nickel-Plated . . . Doz. 33.00
Add for large tubes, 2.40	



PLATE B

PLAIN BIBBS, FOR LEAD PIPE

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	19.80	20.40	26.40	34.80	60.00
Nickel-Plated.....Per Doz.	25.80	26.40	32.40	42.60	72.00
For Hose End Bibbs, add. Per Doz.	4.20	4.20	4.20	4.20	8.40

WITH FLANGE AND THIMBLE, PLAIN

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	27.00	27.60	35.40	45.60	76.20
Nickel-Plated.....Per Doz.	33.00	33.60	41.40	53.40	86.40

WITH FLANGE AND THIMBLE, FOR HOSE

Sizes.....Inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished.....Per Doz.	31.20	31.80	39.60	49.80	.....
Nickel-Plated.....Per Doz.	37.20	37.80	45.60	57.60	.....
Without Thimbles, deduct Per Doz.	2.40	2.40	3.60	5.40	.....



LAVATORY TRAPS.

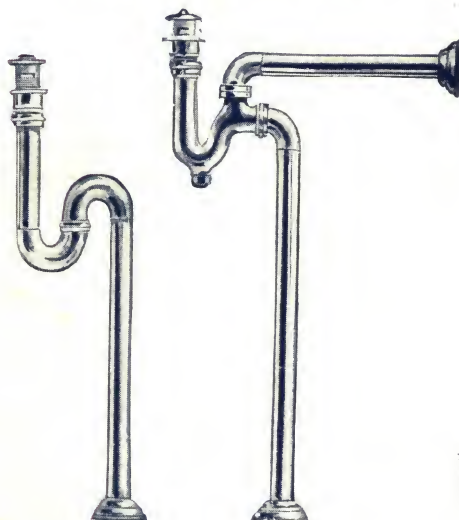


PLATE A

PLATE B

WASTE PIPE
TO FLOOR.PLATE C
WITH PATENT OVERFLOW
BASIN PLUG.

Nickel-plated.....Each,	1.65
If without Patent Overflow Plug, Deduct.....	.40

PLATE A

1 1/4-inch "S" Economy Lavatory Trap, Plain, Complete with Pipe to Floor, and Flange.....Each,	3.00
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PLATE B

1 1/4-inch "S" Economy Lavatory Trap, Vented, Complete with Pipe to Floor, and Vent to Wall, with Flanges.....Each,	3.75
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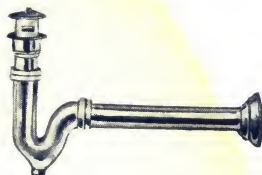


PLATE D

1 1/4-inch Half "S" Trap, with Patent Overflow Plug, not Vented.....	2.25
1 1/2-inch Half "S" Trap, with Patent Overflow Plug, not Vented.....	2.85

SHORT DRAWN LEAD TRAPS.



PLATE A
FULL "S" TRAP.



PLATE B
3-4 "S" TRAP.



PLATE C
1-2 "S" TRAP



PLATE D
RUNNING TRAP



PLATE E
RUNNING "Y" TRAP.



PLATE F
BAG TRAP.

	Weight per Foot, Pounds	Size, Inches	Full "S"	3-4 "S"	1-2 "S"	Run- ning	Run- ning "Y"	Bag
Standard.....	1 1/2	1 1/4	.58	.55	.51	.48	.52	.63
Medium.....	2	1 1/4	.73	.66	.64	.58	.65	.87
Extra Heavy.....	2 1/2	1 1/4	.87	.81	.77	.70	.74	1.06
Standard.....	3	1 1/2	.90	.81	.75	.72	.76	1.08
Medium.....	3 1/4	1 1/2	1.03	.94	.87	.87	.94	1.28
Extra Heavy.....	3 1/2	1 1/2	1.25	1.15	1.09	1.03	1.09	1.54
Standard.....	4	2	1.38	1.30	1.20	1.13	1.34	1.73
Medium.....	4 1/4	2	1.65	1.53	1.42	1.32	1.45	2.08
Extra Heavy.....	4 1/2	2	1.85	1.73	1.57	1.46	1.61	2.33
Standard.....	5	3	2.09	2.02	2.24	2.09	2.46	3.35
Extra Heavy.....	6	3	3.09	2.97	2.58	2.35	2.88	3.96
Standard.....	6	4	3.25	3.07	2.49	2.35	3.15	4.77
Extra Heavy.....	8	4	4.30	3.95	3.25	3.28	4.05	6.30
Standard.....	8	4 1/2	5.00	4.90	4.02	3.95	4.92	6.85
Extra Heavy.....	10	4 1/2	6.06	5.89	4.84	4.80	5.89	8.30

EXTRA LONG DRAWN LEAD TRAPS.



PLATE A
EXTRA LONG FULL "S,"



PLATE B
EXTRA LONG FULL "S,"



PLATE C
EXTRA LONG 3-4 "S,"



PLATE D
EXTRA LONG 3-4 "S,"



PLATE E
EXTRA LONG 1-2 "S,"



PLATE F
EXTRA LONG 1-2 "S,"

	Weight per Foot, Pounds	Size, Inches	Full "S"	$\frac{3}{4}$ " "S"	$\frac{1}{2}$ " "S"	Run- ning	Run- ning "Y"	Bag
Standard.....	1 $\frac{1}{2}$	1 $\frac{1}{4}$	.93	.85	.76	.82	.83	1.09
Medium.....	2	1 $\frac{3}{4}$	1.19	1.04	.95	1.01	1.05	1.38
Extra Heavy.....	2 $\frac{1}{2}$	1 $\frac{3}{4}$	1.44	1.28	1.14	1.23	1.23	1.67
Standard.....	2 $\frac{1}{4}$	1 $\frac{1}{2}$	1.36	1.19	1.02	1.15	1.15	1.58
Medium.....	3	1 $\frac{1}{2}$	1.64	1.43	1.22	1.41	1.45	1.91
Extra Heavy.....	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1.95	1.72	1.50	1.65	1.52	2.24
Standard.....	3 $\frac{1}{4}$	2	2.00	1.76	1.55	1.67	1.82	2.34
Medium.....	4	2	2.40	2.08	1.83	1.98	2.04	2.80
Extra Heavy.....	4 $\frac{1}{2}$	2	2.69	2.33	2.02	2.18	2.23	3.11



LEAD BENDS.



PLATE A
SHORT LEAD BEND.



PLATE B
LONG LEAD BEND.

Dimension Scale:		Short Bends, Center to End		Long Bends, Center to End	
1 1/4-inch.....		6	in. 3 1/2	6	in.
1 1/2-inch.....		7	in. 4	7	in.
2 -inch.....		7 3/4	in. 3 3/4	7 3/4	in.
3 -inch.....		8 1/4	in. 4 1/4	8 1/4	in.
4 -inch.....		10	in. 5 1/2	10	in.
4 1/2-inch.....		11	in. 6 1/4	11	in.
1 1/4-inch.....		1 1/2 lb.	2 lb.	2 1/2 lb.	
Long.....	Each	.30	.41	.50	
Short.....	Each	.25	.31	.34	
1 1/2-inch.....		2 1/4 lb.	3 lb.	3 1/2 lb.	
Long.....	Each	.50	.66	.79	
Short.....	Each	.38	.51	.62	
2 and 3-inch.....	2 in.	2 in.	3 in.	3 in.	
	3 1/4 lb.	4 lb.	5 lb.	6 lb.	
Long.....	Each	1.00	1.05	1.39	1.60
Short.....	Each	.69	.80	1.09	1.21
4 and 4 1/2-inch.....	4 in.	4 in.	4 1/2 in.	4 1/2 in.	
	6 lb.	8 lb.	8 lb.	10 lb.	
Long.....	Each	1.95	2.40	2.98	3.68
Short.....	Each	1.50	1.84	2.55	2.90

EXTENSION BENDS.



PLATE C

1 1/4-INCH

Weight of Lead per Running Foot.....	1 1/2 lb.	2 lb.	2 1/2 lb.
Short Inlet End x 12 in. on Outlet End.....	.40	.52	.60
Short Inlet End x 15 in. on Outlet End.....	.47	.62	.72
Short Inlet End x 18 in. on Outlet End.....	.55	.72	.84
Short Inlet End x 20 in. on Outlet End.....	.60	.79	.92
Long Inlet End x 12 in. on Outlet End.....	.46	.60	.70
Long Inlet End x 15 in. on Outlet End.....	.54	.70	.82
Long Inlet End x 18 in. on Outlet End.....	.62	.80	.94
Long Inlet End x 20 in. on Outlet End.....	.67	.87	1.02
For each inch of excess length over listed size on any shape of Trap or Bend add to the list of near- est listed size.....	.03 1/4	.04 1/4	.05

LEAD PIPE.

AAA...Ex. Ex. Strong
 AA.....Ex. Strong
 A.....Strong
 B.....Medium
 C.....Light
 D.....Ex. Light
 E.....Aqu'dt



PLATE A

LIST OF SIZES. WEIGHT PER FOOT.

Calibre of Pipe, Inches	Weight per Foot, Pounds	Average Length of Coils, Feet	Calibre of Pipe, Inches	Weight per Foot, Pounds	Average Length of Coils, Feet
$\frac{3}{8}$ C.....	12 oz.	100	$1\frac{1}{4}$ A.....	$4\frac{3}{4}$	45
$\frac{3}{8}$ B.....	1	125	$1\frac{1}{4}$ AA.....	$5\frac{3}{4}$	35
$\frac{3}{8}$ A.....	1—4 oz.	100	$1\frac{1}{4}$ AAA.....	$6\frac{3}{4}$	25
$\frac{3}{8}$ AAA.....	1—8 oz.	85	$1\frac{1}{2}$ E.....	3	50
$\frac{1}{2}$ D.....	$\frac{3}{4}$	135	$1\frac{1}{2}$ D.....	$3\frac{1}{2}$	45
$\frac{1}{2}$ C.....	1	125	$1\frac{1}{2}$ C.....	$4\frac{1}{4}$	40
$\frac{1}{2}$ B.....	$1\frac{1}{4}$	140	$1\frac{1}{2}$ B.....	5	42
$\frac{1}{2}$ A.....	$1\frac{3}{4}$	120	$1\frac{1}{2}$ A.....	$6\frac{1}{2}$	32
$\frac{1}{2}$ AA.....	2	100	$1\frac{1}{2}$ AA.....	$7\frac{1}{2}$	25
$\frac{1}{2}$ AAA.....	3	70	$1\frac{1}{2}$ AAA.....	$8\frac{1}{2}$	20
$\frac{5}{8}$ D.....	1	125	2 D.....	$4\frac{3}{4}$	30
$\frac{5}{8}$ C.....	1—8 oz.	85	2 C.....	6	35
$\frac{5}{8}$ B.....	2	100	2 B.....	7	30
$\frac{5}{8}$ A.....	$2\frac{1}{2}$	85	2 A.....	8	25
$\frac{5}{8}$ AA.....	$2\frac{3}{4}$	75	2 AA.....	9	23
$\frac{5}{8}$ AAA.....	$3\frac{1}{2}$	60	2 AAA.....	$11\frac{3}{4}$	20
$\frac{3}{4}$ D.....	$1\frac{1}{4}$	80	3 B.....	9	12
$\frac{3}{4}$ C.....	$1\frac{3}{4}$	65	3 A.....	13	12
$\frac{3}{4}$ B.....	$2\frac{1}{4}$	85	3 AA.....	16	12
$\frac{3}{4}$ A.....	3	70	3 AAA.....	20	12
$\frac{3}{4}$ AA.....	$3\frac{1}{2}$	60	$3\frac{1}{2}$ B.....	10	12
$\frac{3}{4}$ AAA.....	$4\frac{3}{4}$	45	$3\frac{1}{2}$ A.....	15	12
1 D.....	2	65	$3\frac{1}{2}$ AA.....	18	12
1 C.....	$2\frac{1}{2}$	50	$3\frac{1}{2}$ AAA.....	22	12
1 B.....	$3\frac{1}{4}$	65	4 E.....	5	12
1 A.....	4	50	4 D.....	6	12
1 AA.....	$4\frac{3}{4}$	45	4 C.....	8	12
1 AAA.....	6	40	4 B.....	13	12
$1\frac{1}{4}$ E.....	2	50	$4\frac{1}{2}$	14	12
$1\frac{1}{4}$ D.....	$2\frac{1}{2}$	50	$4\frac{1}{2}$	18	12
$1\frac{1}{4}$ C.....	3	45	5.....	20	12
$1\frac{1}{4}$ B.....	$3\frac{3}{4}$	55	5.....	31	10

Special sizes to order.

LEAD SOIL PIPE IN 10 FOOT LENGTHS.

$1\frac{1}{2}$ in.....	2 and 3 lbs. per foot	3 in.....	$3\frac{1}{2}$ and 5 lbs. per foot
2 in.....	3 and 4 lbs. per foot	4 in.....	5, 6 and 8 lbs. per foot



SHEET LEAD.



PLATE A

APPROXIMATE THICKNESS AND WEIGHT OF SHEET LEAD PER SQUARE FOOT

1/64 in. _____	1 lb.	3/32 in. _____	6 lbs.
1/32 in. _____	2 lbs.	1/8 in. _____	8 lbs.
1/24 in. _____	2 1/2 lbs.	5-32 in. _____	10 lbs.
3/64 in. _____	3 lbs.	3/16 in. _____	12 lbs.
1/16 in. _____	4 lbs.	1/4 in. _____	16 lbs.
5-64 in. _____	5 lbs.		

PURE BLOCK TIN PIPE.

1/8 in., 1 1/2 oz. per foot.

1/4 in., 3, 3 1/2, 4, 5, 6, and 8 oz. per foot.

3/8 in., 4, 5, 6, 6 1/2 and 8 oz. per ft.

1/2 in., 4, 4 1/2, 5, 5 1/2, 6, 8 and 10 oz. per foot.

5/8 in., 8, 9, 10, 12 and 16 per oz. foot.



PLATE B



PLATE C

NO. 1 REFINED HALF AND HALF. STRICTLY HALF AND HALF.



PLATE D



PLATE F

We charge market rates for metals.

Will name prices on application.



BRASS FERRULES.



PLATE A

TAPER END, FOR EXTRA HEAVY PIPE.



PLATE B

BENT, WITH HUB.

2 x 1 1/4 in. x 4 in. long.	Per Doz., 9.00
2 x 1 1/2 in. x 4 in. long.	Per Doz., 9.00
2 in. x 4 in. long.	Per Doz., 9.00
3 in. x 4 1/2 in. long.	Per Doz., 17.00
4 in. x 4 3/4 in. long.	Per Doz., 22.00

2 in.	Per Doz., 12.00
3 in.	Per Doz., 18.00
4 in.	Per Doz., 24.00



PLATE C

EIGHTH BEND.



PLATE D

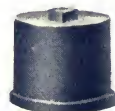
QUARTER BEND.

2 in.	Per Doz., 12.00
3 in.	Per Doz., 18.00
4 in.	Per Doz., 24.00

2 in.	Per Doz., 15.00
3 in.	Per Doz., 21.00
4 in.	Per Doz., 27.00

FERRULES.

WITH BRASS TRAP SCREW.

PLATE E
BRASS.PLATE F
IRON BODY.

Sizes In.	2	3	4	5	6
Per Doz.	10.00	18.00	24.00	48.00	69.00

Sizes.....Inches	2	3	4	5	6
Price.....Ea.	.30	.40	.50	.80	1.10
Ex. Heavy....Ea.	.60	.75	.95	1.25	1.95

SOLDERING NIPPLES.



**PLATE A
MALE.**



**PLATE B
FEMALE.**

MALE PLATE A

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Price.....Per Dozen	3.00	3.00	3.00	3.60	5.40	7.20
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Price.....Per Dozen	10.80	12.60	18.00	33.00	48.00	81.00

FEMALE PLATE B

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Price.....Per Dozen	3.00	3.00	3.00	3.60	5.40	7.20
Size.....Inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Price.....Per Dozen	10.80	12.60	18.00	33.00	48.00	81.00

SOLDERING UNIONS.



**PLATE C
STRAIGHT.**



**PLATE D
BENT.**

STRAIGHT PLATE C

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Price.....Per Dozen	4.20	4.20	4.20	4.80	6.00
Weight.....Per Dozen	8 $\frac{1}{2}$ oz.	9 oz.	1 lb. 1 $\frac{1}{4}$ oz.	1 lb. 12 $\frac{1}{2}$ oz.	2 lb. 11 oz.
Size.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	.....
Price.....Per Dozen	8.40	12.00	15.00	21.00	.....
Weight.....Per Dozen	3 lb. 10 $\frac{1}{2}$ oz.	5 lb. 3 oz.	6 lb. 10 oz.	8 lb. 2 oz.	.....

BENT PLATE D

Size.....Inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Price.....Per Dozen	5.40	5.40	5.40	6.60	9.00
Weight.....Per Dozen	1 lb.	1 lb. 1 $\frac{1}{4}$ oz.	1 lb. 11 $\frac{1}{4}$ oz.	2 lb. 9 $\frac{3}{4}$ oz.	3 lb. 10 oz.
Size.....Inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	.....
Price.....Per Dozen	12.00	16.20	22.80	30.00	.....
Weight.....Per Dozen	5 lb. 5 oz.	7 lb. 8 oz.	9 lb. 9 oz.	11 lb. 12 oz.	.....



CAST IRON SOIL PIPE.

Size.....	In.	2	3	4	5	6	7	8	10	12	15
Standard, Single Hub.....	Per ft.	26	32	42	60	75	1.00	1.25	2.00	3.00	4.50
Standard, Double Hub.....	Per ft.	32	38	48	70	90	1.00	1.45	2.40	3.50	5.00
Medium, Single Hub.....	Per ft.	32	50	68	90	1.05	1.50	1.90	2.40	3.50	5.00
Medium, Double Hub.....	Per ft.	38	56	74	1.00	1.20	1.70	2.25	3.15	4.00	5.00
Extra Heavy, Single Hub.....	Per ft.	40	65	85	1.15	1.35	1.75	2.25	3.00	4.00	5.00
Extra Heavy, Double Hub.....	Per ft.	46	71	91	1.25	1.50	1.95	2.55	3.60	4.60	7.00

SOIL FITTINGS.

Size.....	In.	STANDARD OR MEDIUM						EXTRA HEAVY					
		2	3	4	5	6	8	2	3	4	5	6	8
Bends, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1".....		45	70	1.00	1.75	2.25	4.00	65	1.00	1.30	2.20	3.25	5.00
Bends, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, D. H.....		75	1.00	1.30	2.25	2.75	.....	85	1.30	1.60	2.70	3.25	.....
Bends, Quarter 2 inch Heel or Side Inlet.....		1.45	1.70	2.00	2.75	3.25	.....	1.55	2.00	2.30	3.20	4.25	.....
Bends, $\frac{1}{4}$ and $\frac{1}{2}$ inches long.....		1.10	1.60	2.25	3.50	4.75	.....	1.55	2.30	3.50	5.00	6.50	.....
Bends, $\frac{1}{4}$ and $\frac{1}{2}$ inches long.....		1.40	2.00	2.75	4.25	5.50	7.50	2.00	3.00	4.25	6.00	7.50	10.00
Bends, $\frac{1}{4}$ and $\frac{1}{2}$ inches long.....		1.80	2.75	3.50	5.25	6.50	.....	2.50	4.00	5.25	7.25	8.25	.....
Bends, Short Sweep.....		1.05	1.15	1.60	2.50	3.00	5.00	1.55	1.85	2.15	3.20	4.50	.....
Bends, Long Sweep.....		1.20	1.50	2.00	3.00	4.00	.....	1.80	2.00	2.75	4.00	5.50	7.50
Bends, Return S. H.....		80	1.55	2.15	3.15	3.75	.....	1.05	1.80	2.65	4.15	5.25	.....
Bends, Return D. H.....		1.10	1.85	2.45	3.65	4.25	.....	1.35	2.10	2.95	4.65	5.75	.....
Bends, Double Quarter.....		1.50	2.00	3.00	4.00	.....	.....	2.00	3.00	4.50	5.00	6.50	.....
Bends, Combination Y and $\frac{1}{4}$ inch long.....		2.85	.....	.....	.....	.....	.....	3.95	.....	6.15	11.00	.....	.....
Bends, Combination Y and $\frac{1}{4}$ 24 inch long.....		6.35	9.00	.....	.....	.....	.....	9.15	11.00	.....	.....
Branches, T, TY, Y and $\frac{1}{2}$ Y Str. or Red.....		70	1.25	1.75	2.75	3.50	6.00	1.00	1.65	2.40	3.30	4.50	9.00
Branches, T, Y and Y Spec. Red.....		2.30	2.75	4.25	.....	.....	.....	2.90	3.95	5.40	.....
Branches, T & TY Tapped up to 2 in.....		1.45	1.80	2.20	3.20	.....	.....	1.75	2.20	2.95	4.00	.....	.....
Branches, Double Y, $\frac{1}{4}$ Y Crosses, Str. or Reg. Red.....		1.40	2.05	2.60	3.35	5.25	9.00	2.00	2.75	3.60	4.45	6.75	13.50



SOIL FITTINGS.

Size.	STANDARD OR MEDIUM								EXTRA HEAVY							
	2	3	4	5	6	8			2	3	4	5	6	8		
Branches, T. T.V. Y & 1/2 Y, 18 inch long.	1.65	2.55	3.50	4.75	6.75	...			2.45	3.65	5.35	7.10	8.75	...		
Branches, T. T.V. Y & 1/2 Y, 24 inch long.	2.05	3.05	4.25	5.75	7.75	...			2.95	4.10	6.10	8.10	9.75	...		
Branches, T. T.V. Y & 1/2 Y, 30 inch long.	...	4.05	5.00	6.75	8.75	...			...	5.35	6.85	9.10	10.75	...		
Branches, T. T.V. Y & 1/2 Y, 36 inch long.	...	...	5.75	7.75	9.75	...			...	...	7.60	10.10	11.75	...		
Branches, Tapped Inv. Tee.	1.60	2.00	2.45	2.95	...	...			2.20	2.45	3.35	3.75	...	...
Branches, Tapped Str. & T.V. Crosses, up to 2 inches	2.40	2.85	3.40	...	...	...			3.00	3.55	4.40	...	...	...
Branches, T & T.V. w-2 in. side inlet.	1.70	2.25	2.75	3.25	4.50	7.00			2.00	2.65	3.40	4.30	5.50	10.00		
Inverted Y's	1.00	1.50	2.00	2.50	3.25	6.25			1.50	2.00	2.50	3.50	4.50	9.00		
Vent Branches.	1.75	2.05	2.55	3.05	3.80	...			2.25	2.55	3.05	4.05	5.05	...		
Inverted Y's—Tapped.	.35	.70	.75	1.00	1.25	2.50			.50	.80	.95	1.35	1.60	3.50		
Single and Double Hubs, Sleeves and Thimbles.	...	.70	.90	1.15	1.25	2.00			...	1.00	1.25	1.75	2.25	5.00		
Reducers, Hub End to Govern.	...	...	...	...	...	...			...	1.00	1.25	1.75	2.25	4.25		
Reducers, Spigot End to Govern.	.60	.80	1.25	2.50	3.50	...			.80	1.00	1.75	3.75	5.25	...		
Vent Caps, Spigot End.	.15	.25	.30	.40	.50	1.20			.25	.35	.50	.75	1.00	1.50		
Plugs.	.12	.13	.15	.25	.30	...			.15	.15	.50	1.90	4.00	...		
Offsets, to Offset 2 inches.	.85	1.35	1.50	3.40	4.00	...			1.35	1.85	2.10	4.50	6.00	11.00		
Offsets, to Offset 4 inches.	1.00	1.50	1.70	3.80	4.50	...			1.50	2.00	2.40	5.00	6.50	12.00		
Offsets, to Offset 5 inches.	1.15	1.65	1.95	4.20	5.00	9.00			1.65	2.25	2.70	5.50	7.00	13.00		
Offsets, to Offset 6 inches.	1.35	1.90	2.20	4.60	5.50	...			1.85	2.50	3.00	6.00	7.50	14.00		
Offsets, to Offset 8 inches.	1.50	2.10	2.45	5.00	6.00	...			1.95	2.70	3.40	6.50	8.00	...		
Offsets, to Offset 10 inches.	1.65	2.25	3.15	5.50	6.50	...			2.15	3.00	4.15	7.50	9.00	...		
Offsets, to Offset 12 inches.	2.10	2.60	3.50	6.00	8.50	...			2.40	3.40	4.85	7.50	10.25	...		
Offsets, to Offset 14 inches.	2.50	3.00	3.95	6.50	8.50	...			3.00	3.75	5.55	8.50	12.00	...		
Offsets, to Offset 16 inches.	2.90	3.40	4.40	7.00	10.00	...			3.75	4.50	6.85	9.50	14.00	...		
Offsets, to Offset 18 inches.	3.70	4.15	4.85	...	...	...			4.50	...	7.85	...	...	...
Offsets, to Offset 20 inches.	...	4.50	5.20	...	...	...			5.25	...	8.75	...	...	...
Offsets, to Offset 22 inches.	...	...	...	...	...	...			...	...	...	...	...	...
Offsets, to Offset 24 inches.	...	...	...	...	...	...			...	...	...	...	...	...



SOIL FITTINGS:

STANDARD OR MEDIUM													EXTRA HEAVY			
Size.	In.	2	3	4	5	6	8	2	3	4	5	6	8			
Extension Pieces, to extend 4 inches.....	.60	1.00	1.30	1.70	2.20	2.20	.....	1.00	1.80	2.40	2.80	3.20	.....		
Extension Pieces, to extend 6 inches.....	.80	1.20	1.50	1.90	2.40	2.40	.....	1.20	2.00	2.60	3.20	3.60	.....		
Extension Pieces, to extend 8 inches.....	.90	1.40	1.70	2.20	2.70	2.70	.....	1.40	2.20	2.80	3.60	4.00	.....		
Extension Pieces, to extend 10 inches.....	1.10	1.60	2.00	2.40	3.00	3.00	.....	1.60	2.40	3.00	4.20	4.60	.....		
Extension Pieces, to extend 12 inches.....	1.30	1.80	2.30	2.70	3.40	3.40	.....	1.80	2.60	3.20	4.80	5.40	.....		
Extension Pieces, to extend 14 inches.....	1.50	2.00	2.60	3.00	3.80	3.80	.....	2.00	2.80	3.60	5.40	6.00	.....		
Extension Pieces, to extend 16 inches.....	1.70	2.20	2.90	3.60	4.20	4.20	.....	2.20	3.00	4.00	6.00	7.00	.....		
Extension Pieces, to extend 18 inches.....	1.90	2.40	3.20	4.20	5.20	5.20	.....	2.40	3.20	4.40	7.00	8.00	.....		
Extension Pieces, to extend 20 inches.....	2.10	2.60	3.60	4.80	6.00	6.00	.....	2.60	3.40	4.80	8.00	9.00	.....		
Extension Pieces, to extend 22 inches.....	2.30	3.00	4.00	5.40	7.00	7.00	.....	.....	.....	5.20	8.50	.....	.....	
Extension Pieces, to extend 24 inches.....	2.50	3.40	4.40	6.00	8.00	8.00	.....	.....	.....	5.60	11.00	.....	.....	
Traps:—																
Plain Traps—S, $\frac{3}{4}$ S, P or Running.....	90	1.50	2.00	3.75	5.00	10.00	.....	1.35	2.25	3.00	4.75	7.00	13.00		
Hand Hole and Cover Traps, S, $\frac{3}{4}$ S, P and Running.....	1.65	2.25	2.75	4.50	5.75	10.75	.....	2.10	3.00	3.75	5.50	7.75	13.75		
S, $\frac{3}{4}$ S, P and Run Traps, with 2-in. Vent.	1.90	2.50	3.00	4.75	6.00	11.50	.....	2.35	3.25	4.00	5.75	8.00	.....		
S, $\frac{3}{4}$ S, P and Run Traps, with 3-in. Vent.	2.75	3.50	5.25	6.50	7.00	12.00	.....	3.50	4.50	6.25	8.50	14.50	.....		
S, $\frac{3}{4}$ S, P and Run Traps, with 4-in. Vent.	3.50	5.50	6.75	7.00	12.00	.....	.....	.....	.....	6.50	8.75	.....	.....	
S, $\frac{3}{4}$ S, P and Run Traps, with 5-in. Vent.	5.50	7.00	7.00	12.00	.....	.....	.....	.....	.....	9.00	15.00	.....	.....	
S, $\frac{3}{4}$ S, P and Run Traps, with 6-in. Vent.	7.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Run Traps, only 2-in. Double Vent.	2.90	3.50	.....	.....	.....	.....	.....	3.35	4.25	.....	.....	.....	.....
Run Traps, only 3-in. Double Vent.	4.00	.....	.....	.....	.....	.....	.....	4.75	.....	.....	.....	.....	.....
Run Traps, only 4-in. Double Vent.	5.00	6.75	8.00	13.00	.....	.....	.....	.....	6.00	7.75	10.00	16.00	.....		
Run Traps, only 5-in. Double Vent.	7.25	.....	.....	.....	.....	.....	.....	.....	.....	8.25	.....	.....	.....
Run Traps, only 6-in. Double Vent.	.....	.....	.....	9.00	14.00	.....	.....	.....	.....	.....	11.00	17.00	.....		



SOIL FITTINGS.

LEAD TRAPS AND BENDS CONTAINED IN A BARREL

LEAD DRUM TRAPS

Size.....	In. 4 x 8	4 x 9	5 x 10	6 x 12	1 1/4 in.	1 1/2 in.	2 in.	3 in.	4 in.
Brass Cover.....	2.00	2.12	3.10	4.00	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed
N. P. Cover.....	2.20	2.32	3.30	4.20	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed
Add for Vent Coils.....	1.20	1.20	1.20	1.20	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed
on Cover, Brass.....	1.30	1.30	1.30	1.30	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed
on Cover, N. P.	1.30	1.30	1.30	1.30	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed	Not vent-ed
4 INCH COMBINATION LEAD BENDS									
AND FERRULES									
Length.....	In. 10	12	15	18	20	25	30	35	40
Short Inlet, Standard.	2.00	2.20	2.50	2.80	3.00	3.25	3.50	3.75	4.00
Short Inlet, Ex. Hvy..	2.34	2.59	2.95	3.31	3.54	3.80	4.05	4.30	4.55
Full S.....	75	50	40	30	25	20	15	10	8
3/4 S.....	75	50	40	30	25	20	15	10	8
1/2 S.....	75	50	40	30	25	20	15	10	8
Running Y.....	100	60	70	50	40	30	25	20	15
Running Y.....	75	50	40	30	25	20	15	10	8
Bag.....	35	30	30	25	20	15	10	8	6
Long S.....	125	100	75	50	40	30	25	20	15
Short bends.....	100	75	50	40	30	25	20	15	10
Long bends.....	100	75	50	40	30	25	20	15	10

LEAD DRUM TRAPS AND FERRULES.

Size.....	MEDIUM										EXTRA HEAVY				
	In.	2	3	4	5	6	2	3	4	5	6	7	8	9	10
T. Y. San. T. Cleanouts and P. R. Test Tees.	1.90	2.50	3.00	4.75	6.00	2.35	3.25	4.00	5.75	8.00					
* Traps, S. P. 3/4 S. and Run, Sure Seal.	1.05	2.25	2.75	4.50	5.75	2.10	3.00	3.75	5.50	7.75					
* Traps, S. P. 3/4 S. and Run, Deep Seal.	2.40	3.00	3.50	5.25	6.50	2.85	3.75	4.50	6.25	8.50					
S. S. Clamp, Cover and Gasket.	.35	.55	.70	.90	1.10	.40	.55	.80	1.00	1.25					
S. S. Covers.	.15	.20	.25	.40	.50	.22	.32	.40	.50	.65					
S. S. Clamps and Screws.	.15	.20	.25	.40	.50	.22	.32	.40	.50	.65					

* NOTE.—Philadelphia Regular Traps take same list.

SADDLE HUBS.

Size.....	In.	2 x 2	3 x 2	4 x 2	5 x 2	6 x 2	7 x 2	8 x 2	9 x 2	10 x 2
T. Hubs.....	Each	0.45	0.75	0.90	1.10	1.35	1.60	1.85	2.10	2.35
Y. Hubs.....	Each	0.50	0.80	1.05	1.35	1.60	1.85	2.10	2.35	2.60

PUMPS.



PLATE A



PLATE B



PLATE C

PITCHER SPOUT SUCTION PUMP. CISTERN SUCTION PUMP. HOUSE FORCE PUMP.

PITCHER SPOUT SUCTION PUMP.

WITH CLOSED REVOLVING BEARER TOP AND BOLTED BASE

No.	Diameter Cylinder	Stroke	Capacity per Stroke	Suction	Iron	Brass Lined	Porcelain Lined
1	2 1/2 in.	4 in.	.09 gal.	1 in. pipe	4.25	6.50	.....
2	3 in.	4 in.	.12 gal.	1 1/4 in. pipe	4.75	7.25	7.25
3	3 1/2 in.	4 in.	.17 gal.	1 1/4 in. pipe	5.25	8.00	.....
4	4 in.	4 in.	.22 gal.	1 1/2 in. pipe	6.25	9.00	.....
5	4 1/2 in.	5 in.	.34 gal.	2 in. pipe	9.50	12.50	.....
6	5 in.	5 in.	.43 gal.	2 1/2 in. pipe	17.00	22.50	.....

CISTERN SUCTION PUMP.

WITH REVOLVING BEARER TOP AND BOLTED BASE

No.	Diameter Cylinder	Stroke	Capacity per Stroke	Suction	Iron	Brass Cylinder
0	2 in.	5 in.	.07 gal.	1 in. pipe	3.50	5.50
1	2 1/4 in.	6 in.	.10 gal.	1 in. pipe	4.00	6.00
2	2 1/2 in.	6 in.	.13 gal.	1 1/4 in. pipe	4.50	7.00
3	2 3/4 in.	6 in.	.15 gal.	1 1/4 in. pipe	5.00	8.00
4	3 in.	6 in.	.18 gal.	1 1/4 in. pipe	5.50	10.00
5	3 1/4 in.	6 in.	.22 gal.	1 1/2 in. pipe	6.50	13.00
6	3 1/2 in.	6 in.	.25 gal.	1 1/2 in. pipe	8.00	18.00
8	4 in.	6 in.	.33 gal.	2 in. pipe	10.00	25.00

HOUSE FORCE PUMP.

WITH REVOLVING BRAKE, AIR CHAMBER AND COCK SPOUT

No.	Diameter Cylinder	Stroke	Capacity per Stroke	Suction	Discharges	Iron	Brass Cylinder
0	2 in.	5 in.	.06 gal.	1 in. pipe	1 in. pipe and 1 in. hose	12.00	16.50
2	2 1/2 in.	5 in.	.10 gal.	1 1/4 in. pipe	1 1/4 in. pipe and 1 in. hose	12.50	17.00
4	3 in.	6 in.	.18 gal.	1 1/4 in. pipe	1 1/4 in. pipe and 1 in. hose	14.50	19.50
6	3 1/2 in.	6 in.	.24 gal.	1 1/2 in. pipe	1 1/2 in. pipe and 1 in. hose	21.50	28.50
8	4 in.	6 in.	.32 gal.	2 in. pipe	1 1/2 in. pipe and 1 in. hose	22.50	34.50



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